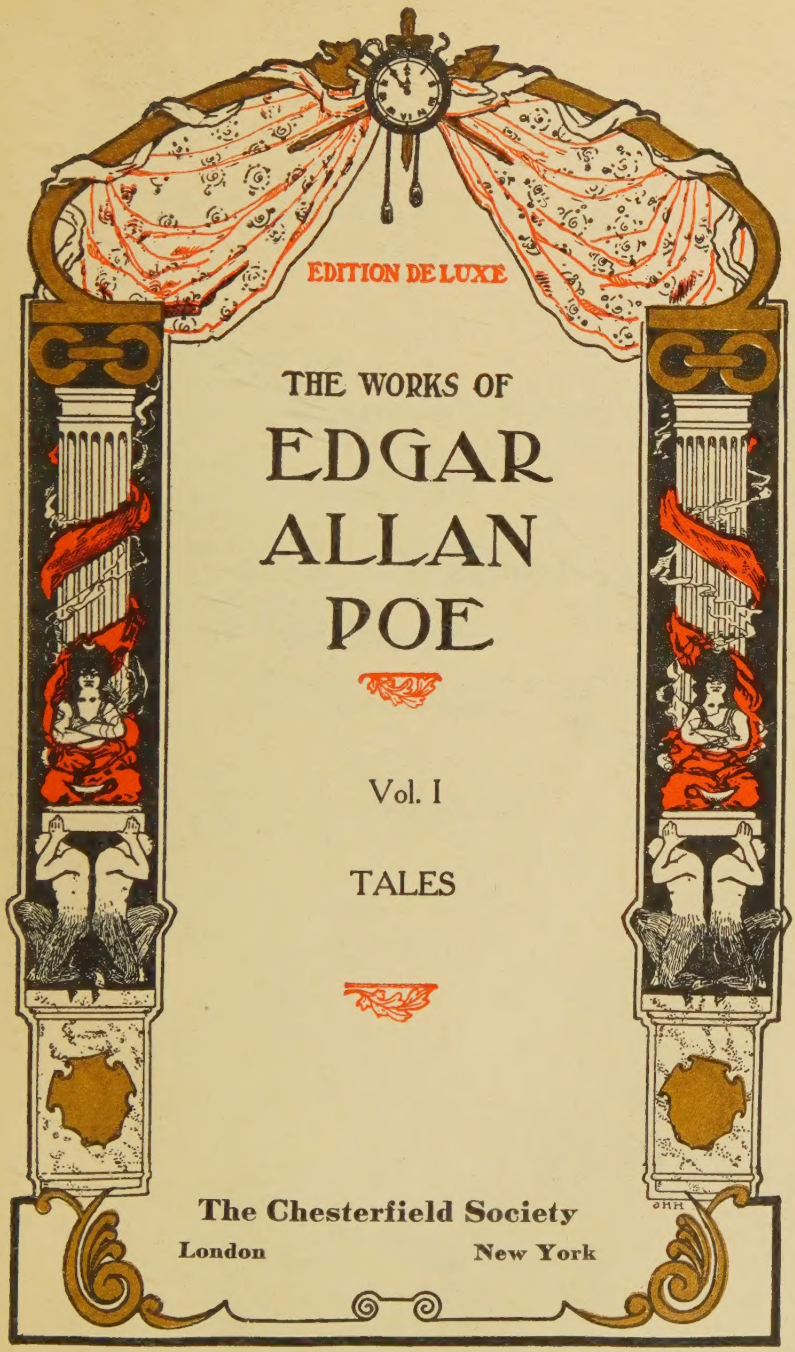
The Set. $12.50
9 Vols of 10

Digitized by the Internet Archive
in 2025

https://archive.org/details/bwb_S0-BKD-089

EDGAR A. POE.



THE WORKS OF

EDGAR ALLAN POE

Vol. I

TALES

The Chesterfield Society

London New York

EDITION DE LUXE

Limited to One Thousand Sets
Printed for Subscribers only

This is Set Number_____

Copyright, 1909, by
Bigelow, Smith & Co.

CONTENTS OF VOL. I

	PAGE
PREFACE, ETC.	iii
EDGAR ALLAN POE	1
DEATH OF EDGAR ALLAN POE	12
MEMOIR OF THE AUTHOR	23
THE UNPARALLELED ADVENTURE OF ONE HANS PFAALL.	95
THE GOLD BUG	162
THE BALLOON-HOAX	208
VON KEMPELEN AND HIS DISCOVERY	225
MESMERIC REVELATION	235
THE FACTS IN THE CASE OF M. VALDEMAR	249
THE THOUSAND-AND-SECOND TALE OF SCHEHERAZADE.	262
MS. FOUND IN A BOTTLE	285
A DESCENT INTO THE MAELSTROM	299

LIST OF ILLUSTRATIONS

VOLUME I

EDGAR ALLAN POE (*Photogravure*) ..... Frontispiece

FACING PAGE

HANS PFAALL 95

HANS PFAALL 152

GOLD BUG 162

GOLD BUG 178

CASE OF M. VALDEMAR 249

MS. FOUND IN A BOTTLE 285

PREFACE TO THE 1849 EDITION

THE late EDGAR ALLAN POE, who was the husband of my only daughter, the son of my eldest brother, and more than a son to myself, in his long-continued and affectionate observance of every duty to me,—under an impression that he might be called suddenly from the world, wrote (just before he left his home in Fordham, for the last time, on the 29th of June, 1849) requests that the Rev. Rufus W. Griswold should act as his literary Executor, and superintend the publication of his works;—and that N. P. Willis, Esq., should write such observations upon his life and character, as he might deem suitable to address to thinking men, in vindication of his memory.

These requests he made with less hesitation, and with confidence that they would be fulfilled, from his knowledge of these gentlemen; and he many times expressed a gratification of such an opportunity of decidedly and unequivocally certifying his respect for the literary judgment and integrity of Mr. Griswold, with whom his personal relations, on account of some unhappy misunderstanding, had for years been interrupted.

In this edition of my son's works, which is published for my benefit, it is a great pleasure for me to thank Mr. Griswold and Mr. Willis for their prompt fulfilment of the wishes of the dying poet, in labors, which demanded much time and attention, and which they have performed without any other recompense than the happiness which rewards acts of duty and

kindness. I add to these expressions of gratitude to them, my acknowledgments to J. R. Lowell, Esquire, for his notices of Mr. Poe's genius and writings which are here published.

MARIA CLEMM.

EDGAR ALLAN POE*

BY JAMES RUSSELL LOWELL

THE situation of American literature is anomalous. It has no centre, or, if it have, it is like that of the sphere of Hermes. It is divided into many systems, each revolving round its several sun, and often presenting to the rest only the faint glimmer of a milk-and-water way. Our capital city, unlike London or Paris, is not a great central heart, from which life and vigor radiate to the extremities, but resembles more an isolated umbilicus, stuck down as near as may be to the centre of the land, and seeming rather to tell a legend of former usefulness than to serve any present need. Boston, New York, Philadelphia, each has its literature almost more distinct than those of the different dialects of Germany; and the Young Queen of the West has also one of her own, of which some articulate rumor barely has reached us dwellers by the Atlantic.

Perhaps there is no task more difficult than the just criticism of cotemporary literature. It is even more grateful to give praise where it is needed than where it is deserved, and friendship so often seduces the iron stylus of justice into a vague flourish, that she writes what seems rather like an epitaph than a criticism. Yet if praise be given as an alms, we could not drop so poisonous a one into any man's

* The following notice of Mr. Poe's life and works was written at his own request, five years ago, and accompanied a portrait of him, published in Graham's Magazine for February, 1845. It is here reprinted with a few alterations and omissions.

hat. The critic's ink may suffer equally from too large an infusion of nutgalls or of sugar. But it is easier to be generous than to be just, and we might readily put faith in that fabulous direction to the hiding-place of truth, did we judge from the amount of water which we usually find mixed with it.

Remarkable experiences are usually confined to the inner life of imaginative men, but Mr. Poe's biography displays a vicissitude and peculiarity of interest such as is rarely met with. The offspring of a romantic marriage, and left an orphan at an early age, he was adopted by Mr. Allan, a wealthy Virginian, whose barren marriage-bed seemed the warranty of a large estate to the young poet. Having received a classical education in England, he returned home and entered the University of Virginia, where, after an extravagant course, followed by reformation at the last extremity, he was graduated with the highest honors of his class. Then came a boyish attempt to join the fortunes of the insurgent Greeks, which ended at St. Petersburg, where he got into difficulties through want of a passport, from which he was rescued by the American consul, and sent home. He now entered the military academy at West Point, from which he obtained a dismissal on hearing of the birth of a son to his adopted father, by a second marriage, an event which cut off his expectations as an heir. The death of Mr. Allan, in whose will his name was not mentioned, soon after relieved him of all doubt of this regard, and he committed himself at once to authorship for a support. Previously to this, however, he had published (in 1827) a small volume of poems, which soon ran through three editions, and excited high expectations of its author's future distinction in the minds of many competent judges.

That no certain augury can be drawn from a poet's earliest lispings there are instances enough to prove. Shakspeare's first poems, though brimful of vigor and youth and picturesqueness, give but a very faint promise of the directness, condensation and overflowing moral of his maturer works. Perhaps, however, Shakspeare is hardly a case in point, his "Venus and Adonis" having been published, we believe, in his twenty-sixth year. Milton's Latin verses show tenderness, a fine eye for nature, and a delicate appreciation of classic models, but give no hint of the author of a new style in poetry. Pope's youthful pieces have all the sing-song, wholly unrelieved by the glittering malignity and eloquent irreligion of his later productions. Collins' callow namby-pamby died and gave no sign of the vigorous and original genius which he afterwards displayed. We have never thought that the world lost more in the "marvellous boy," Chatterton, than a very ingenious imitator of obscure and antiquated dulness. Where he becomes original (as it is called) the interest of ingenuity ceases and he becomes stupid. Kirke White's promises were endorsed by the respectable name of Mr. Southey, but surely with no authority from Apollo. They have the merit of a traditional piety, which, to our mind, if uttered at all, had been less objectionable in the retired closet of a diary, and in the sober raiment of prose. They do not clutch hold of the memory with the drowning pertinacity of Watts; neither have they the interest of his occasional simple, lucky beauty. Burns having fortunately been rescued by his humble station from the contaminating society of the "best models" wrote well and naturally from the first. Had he been unfortunate enough to have had an educated taste, we should have had a series of poems from which, as from his

letters, we could sift here and there a kernel from the mass of chaff. Coleridge's youthful efforts give no promise whatever of that poetical genius which produced at once the wildest, tenderest, most original and most purely imaginative poems of modern times. Byron's "Hours of Idleness" would never find a reader except from an intrepid and indefatigable curiosity. In Wordsworth's first preludings there is but a dim foreboding of the creator of an era. From Southey's early poems, a safer augury might have been drawn. They show the patient investigator, the close student of history, and the unwearied explorer of the beauties of predecessors, but they give no assurances of a man who should add aught to stock of household words, or to the rarer and more sacred delights of the fire-side or the arbor. The earliest specimens of Shelley's poetic mind already, also, give tokens of that ethereal sublimation in which the spirit seems to soar above the regions of words, but leaves its body, the verse, to be entombed, without hope of resurrection, in a mass of them. Cowley is generally instanced as a wonder of precocity. But his early insipidities show only a capacity for rhyming and for the metrical arrangement of certain conventional combinations of words, a capacity wholly dependent on a delicate physical organization, and an unhappy memory. An early poem is only remarkable when it displays an effort of *reason*, and the rudest verses in which we can trace some conception of the ends of poetry, are worth all the miracles of smooth juvenile versification. A schoolboy, one would say, might acquire the regular see-saw of Pope merely by an association with the motion of the play-ground tilt.

Mr. Poe's early productions show that he could see through the verse to the spirit beneath, and that

he already had a feeling that all the life and grace of the one must depend on and be modulated by the will of the other. We call them the most remarkable boyish poems that we have ever read. We know of none that can compare with them for maturity of purpose, and a nice understanding of the effects of language and metre. Such pieces are only valuable when they display what we can only express by the contradictory phrase of *innate experience*. We copy one of the shorter poems, written when the author was only fourteen. There is a little dimness in the filling up, but the grace and symmetry of the outline are such as few poets ever attain. There is a smack of ambrosia about it.

TO HELEN.

Helen, thy beauty is to me
Like those Nicean barks of yore,
That gently, o'er a perfumed sea,
The weary, way-worn wanderer bore
To his own native shore.

On desperate seas long wont to roam,
Thy hyacinth hair, thy classic face,
Thy Naiad airs have brought me home
To the glory that was Greece
And the grandeur that was Rome.

Lo! in yon brilliant window-niche
How statue-like I see thee stand!
The agate lamp within thy hand.
Ah! Psyche, from the regions which
Are Holy Land!

It is the *tendency* of the young poet that impresses us. Here is no "withering scorn" no heart "blighted" ere it has safely got into its teens, none of the drawing-room sansculotism which Byron had brought into vogue. All is lympid and serene, with a pleas-

ant dash of the Greek Helicon in it. The melody of the whole, too, is remarkable. It is not of that kind which can be demonstrated arithmetically upon the tips of the fingers. It is of that finer sort which the inner ear alone can estimate. It seems simple, like a Greek column, because of its perfection. In a poem named "Ligeia," under which title he intended to personify the music of nature, our boy-poet gives us the following exquisite picture:

Ligeia! Ligeia!
My beautiful one,
Whose harshest idea
Will to melody run,
Say, is it thy will,
On the breezes to toss,
Or, capriciously still,
Like the lone albatross,
Incumbent on night,
As she on the air,
To keep watch with delight
On the harmony there?

John Neal, himself a man of genius, and whose lyre has been too long capriciously silent, appreciated the high merit of these and similar passages, and drew a proud horoscope for their author.

Mr. Poe had that indescribable something which men have agreed to call *genius*. No man could ever tell us precisely what it is, and yet there is none who is not inevitably aware of its presence and its power. Let talent writhe and contort itself as it may, it has no such magnetism. Larger of bone and sinew it may be, but the wings are wanting. Talent sticks fast to earth, and its most perfect works have still one foot of clay. Genius claims kindred with the very workings of Nature herself, so that a sunset shall seem like a quotation from Dante or Milton, and if

Shakspeare be read in the very presence of the sea itself, his verses shall but seem nobler for the sublime criticism of ocean. Talent may make friends for itself, but only genius can give to its creations the divine power of winning love and veneration. Enthusiasm cannot cling to what itself is unenthusiastic, nor will he ever have disciples who has not himself impulsive zeal enough to be a disciple. Great wits are allied to madness only inasmuch as they are possessed and carried away by their demon, while talent keeps him, as Paracelsus did, securely prisoned in the pommel of its sword. To the eye of genius, the veil of the spiritual world is ever rent asunder, that it may perceive the ministers of good and evil who throng continually around it. No man of mere talent ever flung his inkstand at the devil.

When we say that Mr. Poe had genius, we do not mean to say that he has produced evidence of the highest. But to say that he possesses it at all is to say that he needs only zeal, industry, and a reverence for the trust reposed in him, to achieve the proudest triumphs and the greenest laurels. If we may believe the Longinuses and Aristotles of our newspapers, we have quite too many geniuses of the loftiest order to render a place among them at all desirable, whether for its hardness of attainment or its seclusion. The highest peak of our Parnassus is, according to these gentlemen, by far the most thickly settled portion of the country, a circumstance which must make it an uncomfortable residence of individuals of a poetical temperament, if love of solitude be, as immemorial tradition asserts, a necessary part of their idiosyncrasy.

Mr. Poe has two of the prime qualities of genius, a faculty of vigorous yet minute analysis, and a wonderful fecundity of imagination. The first of

these faculties is as needful to the artist in works, as a knowledge of anatomy is to the artist in colors or in stone. This enables him to conceive truly, to maintain a proper relation of parts, and to draw a correct outline, while the second groups, fills up, and colors. Both of these Mr. Poe has displayed with singular distinctness in his prose works, the last predominating in his earlier tales, and the first in his later ones. In judging of the merit of an author, and assigning him his niche among our household gods, we have a right to regard him from our own point of view, and to measure him by our own standard. But, in estimating the amount of power displayed in his works, we must be governed by his own design, and, placing them by the side of his own ideal, find how much is wanting. We differ from Mr. Poe in his opinions of the objects of art. He esteems that object to be the creation of Beauty, and perhaps it is only in the definition of that word that we disagree with him. But in what we shall say of his writings, we shall take his own standard as our guide. The temple of the god of song is equally accessible from every side, and there is room enough in it for all who bring offerings, or seek an oracle.

In his tales, Mr. Poe has chosen to exhibit his power chiefly in that dim region which stretches from the very utmost limits of the probable into the weird confines of superstition and unreality. He combines in a very remarkable manner two faculties which are seldom found united; a power of influencing the mind of the reader by the impalpable shadows of mystery, and a minuteness of detail which does not leave a pin or a button unnoticed. Both are, in truth, the natural results of the predominating quality of his mind, to which we have before alluded, analy-

sis. It is this which distinguishes the artist. His mind at once reaches forward to the effect to be produced. Having resolved to bring about certain emotions in the reader, he makes all subordinate parts tend strictly to the common centre. Even his mystery is mathematical to his own mind. To him *x* is a known quantity all along. In any picture that he paints, he understands the chemical properties of all his colors. However vague some of his figures may seem, however formless the shadows, to him the outline is as clear and distinct as that of a geometrical diagram. For this reason Mr. Poe has no sympathy with *Mysticism*. The Mystic dwells *in* the mystery, is enveloped with it; it colors all his thoughts; it affects his optic nerve especially, and the commonest things get a rainbow edging from it. Mr. Poe, on the other hand, is a spectator *ab extra*. He analyzes, he dissects, he watches

> ——"with an eye serene,
> The very pulse of the machine,"

for such it practically is to him, with wheels and cogs and piston-rods, all working to produce a certain end.

This analyzing tendency of his mind balances the poetical, and, by giving him the patience to be minute, enables him to throw a wonderful reality into his most unreal fancies. A monomania he paints with great power. He loves to dissect one of these cancers of the mind, and to trace all the subtle ramifications of its roots. In raising images of horror, also, he has a strange success; conveying to us sometimes by a dusky hint some terrible *doubt* which is the secret of all horror. He leaves to imagination the task of finishing the picture, a task to which only she is competent.

> "For much imaginary work was there;
> Conceit deceitful, so compact, so kind,
> That for Achilles' image stood his spear
> Grasped in an armed hand; himself behind
> Was left unseen, save to the eye of mind."

Beside the merit of conception, Mr. Poe's writings have also that of form. His style is highly finished, graceful and truly classical. It would be hard to find a living author who had displayed such varied powers. As an example of his style we would refer to one of his tales, "The House of Usher," in the first volume of his "Tales of the Grotesque and Arabesque." It has a singular charm for us, and we think that no one could read it without being strongly moved by its serene and sombre beauty. Had its author written nothing else, it would alone have been enough to stamp him as a man of genius, and the master of a classic style. In this tale occurs, perhaps, the most beautiful of his poems.

The great masters of imagination have seldom resorted to the vague and the unreal as sources of effect. They have not used dread and horror alone, but only in combination with other qualities, as means of subjugating the fancies of their readers. The loftiest muse has ever a household and fireside charm about her. Mr. Poe's secret lies mainly in the skill with which he has employed the strange fascination of mystery and terror. In this his success is so great and striking as to deserve the name of art, not artifice. We cannot call his materials the noblest or purest, but we must concede to him the highest merit of construction.

As a critic, Mr. Poe was æsthetically deficient. Unerring in his analysis of dictions, metres, and plots, he seemed wanting in the faculty of perceiving the profounder ethics of art. His criticisms are,

however, distinguished for scientific precision and coherence of logic. They have the exactness, and at the same time, the coldness of mathematical demonstrations. Yet they stand in strikingly refreshing contrast with the vague generalisms and sharp personalities of the day. If deficient in warmth, they are also without the heat of partizanship. They are especially valuable as illustrating the great truth, too generally overlooked, that analytic power is a subordinate quality of the critic.

On the whole, it may be considered certain that Mr. Poe has attained an individual eminence in our literature, which he will keep. He has given proof of power and originality. He has done that which could only be done once with success or safety, and the imitation or repetition of which would produce weariness.

DEATH OF EDGAR ALLAN POE*

BY N. P. WILLIS

THE ancient fable of two antagonistic spirits imprisoned in one body, equally powerful and having the complete mastery by turns—of one man, that is to say, inhabited by both a devil and an angel—seems to have been realized, if all we hear is true, in the character of the extraordinary man whose name we have written above. Our own impression of the nature of Edgar A. Poe, differs in some important degree, however, from that which has been generally conveyed in the notices of his death. Let us, before telling what we personally know of him, copy a graphic and highly finished portraiture, from the pen of Dr. Rufus W. Griswold, which appeared in a recent number of the *Tribune:*—

"Edgar Allan Poe is dead. He died in Baltimore on Sunday, October 7th. This announcement will startle many, but few will be grieved by it. The poet was known, personally or by reputation, in all this country; he had readers in England, and in several of the states of Continental Europe; but he had few or no friends; and the regrets for his death will be suggested principally by the consideration that in him literary art has lost one of its most brilliant but erratic stars." * * * * * * *

"His conversation was at times almost supra-mortal in its eloquence. His voice was modulated with astonishing skill, and his large and variably ex-

* These remarks were published by Mr. Willis, in the "Home Journal," on the Saturday following Mr. Poe's death.

pressive eyes looked repose or shot fiery tumult into theirs who listened, while his own face glowed, or was changeless in pallor, as his imagination quickened his blood or drew it back frozen to his heart. His imagery was from the worlds which no mortals can see but with the vision of genius.—Suddenly starting from a proposition, exactly and sharply defined in terms of utmost simplicity and clearness, he rejected the forms of customary logic, and by a crystalline process of accretion, built up his ocular demonstrations in forms of gloomiest and ghastliest grandeur, or in those of the most airy and delicious beauty—so minutely and distinctly, yet so rapidly, that the attention which was yielded to him was chained till it stood among his wonderful creations—till he himself dissolved the spell, and brought his hearers back to common and base existence, by vulgar fancies or exhibitions of the ignoblest passion.

"He was at all times a dreamer—dwelling in ideal realms—in heaven or hell—peopled with the creatures and the accidents of his brain. He walked the streets, in madness or melancholy, with lips moving in indistinct curses, or with eyes upturned in passionate prayer, (never for himself, for he felt, or professed to feel, that he was already damned, but) for their happiness who at the moment were objects of his idolatry;—or, with his glances introverted to a heart gnawed with anguish, and with a face shrouded in gloom, he would brave the wildest storms; and all night, with drenched garments and arms beating the winds and rains, would speak as if to spirits that at such times only could be evoked by him from the Aidenn, close by whose portals his disturbed soul sought to forget the ills to which his constitution subjected him—close by the Aidenn where were those he loved—the Aidenn which he might never see, but

in fitful glimpses, as its gates opened to receive the less fiery and more happy natures whose destiny to sin did not involve the doom of death.

"He seemed, except when some fitful pursuit subjugated his will and engrossed his faculties, always to bear the memory of some controlling sorrow. The remarkable poem of *The Raven* was probably much more nearly than has been supposed, even by those who were very intimate with him, a reflection and an echo of his own history. *He* was that bird's

> "'———unhappy master whom unmerciful Disaster
> Followed fast and followed faster till his songs one burden bore—
> Till the dirges of his Hope that melancholy burden bore
> Of 'Never—never more.'

"Every genuine author in a greater or less degree leaves in his works whatever their design, traces of his personal character: elements of his immortal being, in which the individual survives the person. While we read the pages of the *Fall of the House of Usher*, or of *Mesmeric Revelations*, we see in the solemn and stately gloom which invests one, and in the subtle metaphysical analysis of both, indications of the idiosyncrasies—of what was most remarkable and peculiar—in the author's intellectual nature. But we see here only the better phases of his nature, only the symbols of his juster action, for his harsh experience had deprived him of all faith, in man or woman. He had made up his mind upon the numberless complexities of the social world, and the whole system with him was an imposture. This conviction gave a direction to his shrewd and naturally unamiable character. Still, though he regarded society as composed altogether of villains, the sharpness of his intellect was not of that kind which enabled him to cope with villainy, while it continually

caused him by overshots to fail of the success of honesty. He was in many respects like Francis Vivian in Bulwer's novel of 'The Caxtons.' Passion, in him, comprehended many of the worst emotions which militate against human happiness. You could not contradict him, but you raised quick choler; you could not speak of wealth, but his cheek paled with gnawing envy. The astonishing natural advantages of this poor boy—his beauty, his readiness, the daring spirit that breathed around him like a fiery atmosphere—had raised his constitutional self-confidence into an arrogance that turned his very claims to admiration into prejudices against him. Irascible, envious—bad enough, but not the worst, for these salient angles were all varnished over with a cold repellent cynicism, his passions vented themselves in sneers. There seemed to him no moral susceptibility; and, what was more remarkable in a proud nature, little or nothing of the true point of honor. He had, to a morbid excess, that desire to rise which is vulgarly called ambition; but no wish for the esteem or the love of his species; only the hard wish to succeed—not shine, not serve—succeed, that he might have the right to despise a world which galled his self-conceit.

"We have suggested the influence of his aims and vicissitudes upon his literature. It was more conspicuous in his later than in his earlier writings. Nearly all that he wrote in the last two or three years—including much of his best poetry—was in some sense biographical; in draperies of his imagination, those who had taken the trouble to trace his steps, could perceive, but slightly concealed, the figure of himself."

Apropos of the disparaging portion of the above well-written sketch, let us truthfully say:—

Some four or five years since, when editing a daily paper in this city, Mr. Poe was employed by us, for several months, as critic and sub-editor. This was our first personal acquaintance with him. He resided with his wife and mother at Fordham, a few miles out of town, but was at his desk in the office, from nine in the morning till the evening paper went to press. With the highest admiration for his genius, and a willingness to let it atone for more than ordinary irregularity, we were led by common report to expect a very capricious attention to his duties, and occasionally a scene of violence and difficulty. Time went on, however, and he was invariably punctual and industrious. With his pale, beautiful and intellectual face, as a reminder of what genius was in him, it was impossible, of course, not to treat him always with deferential courtesy, and, to our occasional request that he would not probe too deep in a criticism, or that he would erase a passage colored too highly with his resentments against society and mankind, he readily and courteously assented—far more yielding than most men, we thought, on points so excusably sensitive. With a prospect of taking the lead in another periodical, he, at last, voluntarily gave up his employment with us, and, through all this considerable period, we had seen but one presentment of the man—a quiet, patient, industrious, and most gentlemanly person, commanding the utmost respect and good feeling by his unvarying deportment and ability.

Residing as he did in the country, we never met Mr. Poe in hours of leisure; but he frequently called on us afterwards at our place of business, and we met him often in the street—invariably the sad-mannered, winning and refined gentleman, such as we had always known him. It was by rumor only, up to the

day of his death, that we knew of any other development of manner or character. We heard, from one who knew him well, (what should be stated in all mention of his lamentable irregularities,) that, with a *single glass* of wine, his whole nature was reversed, the demon became uppermost, and, though none of the usual signs of intoxication were visible, his *will* was palpably insane. Possessing his reasoning faculties in excited activity, at such times, and seeking his acquaintances with his wonted look and memory, he easily seemed personating only another phase of his natural character, and was accused, accordingly, of insulting arrogance and bad-heartedness. In this reversed character, we repeat, it was never our chance to see him. We know it from hearsay, and we mention it in connection with this sad infirmity of physical constitution; which puts it upon very nearly the ground of a temporary and almost irresponsible insanity.

The arrogance, vanity and depravity of heart, of which Mr. Poe was generally accused, seem, to us, referable altogether to this reversed phase of his character. Under that degree of intoxication which only acted upon him by demonizing his sense of truth and right, he doubtless said and did much that was wholly irreconcilable with his better nature; but, when himself, and as we knew him only, his modesty and unaffected humility, as to his own deservings, were a constant charm to his character. His letters (of which the constant application for autographs has taken from us, we are sorry to confess, the greater portion) exhibited this quality very strongly. In one of the carelessly written notes of which we chance still to retain possession, for instance, he speaks of "The Raven"—that extraordinary poem which electrified the world of imaginative

readers, and has become the type of a school of poetry of its own—and, in evident earnest, attributes its success to the few words of commendation with which we had prefaced it in this paper. It will throw light on his sane character to give a literal copy of the note:—

"FORDHAM, April 20, 1849.

"*My dear Willis:*—The poem which I enclose, and which I am so vain as to hope you will like, in some respects, has been just published in a paper for which sheer necessity compels me to write, now and then. It pays well as times go—but unquestionably it ought to pay ten prices; for whatever I send it I feel I am consigning to the tomb of the Capulets. The verses accompanying this, may I beg you to take out of the tomb, and bring them to light in the Home Journal? If you can oblige me so far as to copy them, I do not think it will be necessary to say 'From the ———,' —that would be too bad;—and, perhaps, 'From a late ———-paper,' would do.

"I have not forgotten how a 'good word in season' from you made 'The Raven,' and made 'Ulalume,' (which, by-the-way, people have done me the honor of attributing to you)—therefore I *would* ask you, (if I dared,) to say something of these lines—if they please you.

"Truly yours ever,

"EDGAR A. POE."

In double proof—of his earnest disposition to do the best for himself, and of the trustful and grateful nature which has been denied him—we give another of the only three of his notes which we chance to retain:—

"FORDHAM, January 22, 1848.

"*My dear Mr. Willis:*—I am about to make an effort at re-establishing myself in the literary world, and *feel* that I may depend upon your aid.

"My general aim is to start a Magazine, to be called '*The Stylus;*' but it would be useless to me, even when established, if not entirely out of the control of a publisher. I mean, therefore, to get up a Journal which shall be *my*

own, at all points. With this end in view, I must get a list of, at least, five hundred subscribers to begin with:—nearly two hundred I have already. I propose, however, to go South and West, among my personal and literary friends—old college and West Point acquaintances—and see what I can do. In order to get the means of taking the first step, I propose to lecture at the Society Library, on Thursday, the 3d of February—and, that there may be no cause of *squabbling*, my subject shall *not be literary* at all. I have chosen a broad text—'The Universe.'

"Having thus given you *the facts* of the case, I leave all the rest to the suggestions of your own tact and generosity. Gratefully—*most* gratefully—

"Your friend always,

"EDGAR A. POE."

Brief and chance-taken, as these letters are, we think they sufficiently prove the existence of the very qualities denied to Mr. Poe—humility, willingness to persevere, belief in another's kindness, and capability of cordial and grateful friendship! Such he assuredly was *when sane*. Such only he has invariably seemed to us, in all we have happened personally to know of him, through a friendship of five or six years. And so much easier is it to believe what we have seen and known, than what we *hear* of only, that we remember him but with admiration and respect—these descriptions of him, when morally insane, seeming to us like portraits, painted in sickness, of a man we have only known in health.

But there is another, more touching, and far more forcible evidence that there *was goodness* in Edgar A. Poe. To reveal it, we are obliged to venture upon the lifting of the veil which sacredly covers grief and refinement in poverty—but we think it may be excused, if so we can brighten the memory of the poet, even were there not a more needed and immediate service which it may render to the nearest link broken by his death.

Our first knowledge of Mr. Poe's removal to this city was by a call which we received from a lady who introduced herself to us as the mother of his wife. She was in search of employment for him, and she excused her errand by mentioning that he was ill, that her daughter was a confirmed invalid, and that their circumstances were such as compelled her taking it upon herself. The countenance of this lady, made beautiful and saintly with an evidently complete giving up of her life to privation and sorrowful tenderness, her gentle and mournful voice urging its plea, her long-forgotten but habitually and unconsciously refined manners, and her appealing and yet appreciative mention of the claims and abilities of her son, disclosed at once the presence of one of those angels upon earth that women in adversity can be. It was a hard fate that she was watching over. Mr. Poe wrote with fastidious difficulty, and in a style too much above the popular level to be well paid. He was always in pecuniary difficulty, and, with his sick wife, frequently in want of the merest necessaries of life. Winter after winter, for years, the most touching sight to us, in this whole city, has been that tireless minister to genius, thinly and insufficiently clad, going from office to office with a poem, or an article on some literary subject, to sell—sometimes simply pleading in a broken voice that he was ill, and begging for him—mentioning nothing but that "he was ill," whatever might be the reason for his writing nothing—and never, amid all her tears and recitals of distress, suffering one syllable to escape her lips that could convey a doubt of him, or a complaint, or a lessening of pride in his genius and good intentions. Her daughter died, a year and a half since, but she did not desert him. She continued his ministering angel—living with him—

caring for him—guarding him against exposure, and, when he was carried away by temptation, amid grief and the loneliness of feelings unreplied to, and awoke from his self-abandonment prostrated in destitution and suffering, *begging* for him still. If woman's devotion, born with a first love, and fed with human passion, hallow its object, as it is allowed to do, what does not a devotion like this—pure, disinterested and holy as the watch of an invisible spirit—say for him who inspired it?

We have a letter before us, written by this lady, Mrs. Clemm, on the morning in which she heard of the death of this object of her untiring care. It is merely a request that we would call upon her, but we will copy a few of its words—sacred as its privacy is—to warrant the truth of the picture we have drawn above, and add force to the appeal we wish to make for her:—

"I have this morning heard of the death of my darling Eddie.....Can you give me any circumstances or particulars.....Oh! do not desert your poor friend in this bitter affliction.....Ask Mr. —— to come, as I must deliver a message to him from my poor Eddie..... I need not ask you to notice his death and to speak well of him. I know you will. But say what an affectionate son he was to me, his poor desolate mother."

To hedge round a grave with respect, what choice is there, between the relinquished wealth and honors of the world, and the story of such a woman's unrewarded devotion! Risking what we do, in delicacy, by making it public, we feel—other reasons aside—that it betters the world to make known that there are such ministrations to its erring and gifted. What we have said will speak to some hearts. There are those who will be glad to know how the lamp, whose light of poetry has beamed on their

far-away recognition, was watched over with care and pain—that they may send to her, who is more darkened than they by its extinction, some token of their sympathy. She is destitute, and alone. If any, far or near, will send to us what may aid and cheer her through the remainder of her life, we will joyfully place it in her hands.

MEMOIR OF THE AUTHOR

PREFACE

HITHERTO I have not written or published a syllable upon the subject of Mr. Poe's life, character, or genius, since I was informed, some ten days after his death, of my appointment to be his literary executor. I did not suppose I was debarred from the expression of any feelings or opinions in the case by the acceptance of this office, the duties of which I regarded as simply the collection of his works and their publication, for the benefit of the rightful inheritors of his property, in a form and manner that would probably have been most agreeable to his own wishes. I would gladly have declined a trust imposing so much labor, for I had been compelled by ill health to solicit the indulgence of my publishers, who had many thousand dollars invested in an unfinished work under my direction; but when I was told by several of Mr. Poe's most intimate friends—among others by the family of S. D. LEWIS, ESQ., to whom in his last years he was under greater obligations than to any or to all others—that he had long been in the habit of expressing a desire that in the event of his death I should be his editor, I yielded to the apparent necessity, and proceeded immediately with the preparation of the two volumes which have heretofore been published. But I had, at the request of the Editor of "The Tribune," written hastily a few paragraphs about Mr. POE, which appeared in that paper with the telegraphic communication of his death; and two or three of these paragraphs having been quoted

by Mr. N. P. Willis, in his Notice of Mr. Poe, were as a part of that Notice unavoidably reprinted in the volume of the deceased author's Tales. And my unconsidered and imperfect, but, as every one who knew its subject readily perceived, very kind article, was now vehemently attacked. A writer under the signature of "George R. Graham," in a sophomorical and trashy but widely circulated Letter, denounced it as "the fancy sketch of a jaundiced vision," "an immortal infamy," and its composition a "*breach of trust.*" And to excuse his five months' silence, and to induce a belief that he did not know that what I had written was already published *before I* could *have been advised that I was to be Mr.* Poe's *executor*, (a condition upon which all the possible force of his Letter depends,) this silly and ambitious person, while represented as entertaining a friendship really passionate in its tenderness for the poor author, (of whom in four years of his extremest poverty he had not purchased for his magazine a single line,) is made to say that in *half a year* he had not seen so noticeable an article,—though within a week after Mr. Poe's death it appeared in "The Tribune," in "The Home Journal," in three of the daily papers of his own city, and in "The Saturday Evening Post," of which he was or had been himself one of the chief proprietors and editors! And Mr. John Neal, too, who had never had even the slightest personal acquaintance with Poe in his life, rushes from a sleep which the public had trusted was eternal, to declare that my characterization of Poe (which he is pleased to describe as "poetry, exalted poetry, poetry of astonishing and original strength") is false and malicious, and that I am a "calumniator," a "Rhadamanthus," etc. Both these writers—John Neal following the author of the Letter signed "George R. Graham"—

not only assume what I have shown to be false, (that the remarks on POE'S character were written by me *as his executor*,) but that there was a long, intense, and implacable enmity betwixt POE and myself, which disqualified me for the office of his biographer. This scarcely needs an answer after the poet's dying request that I should be his editor; but the manner in which it has been urged, will, I trust, be a sufficient excuse for the following demonstration of its absurdity.

My acquaintance with Mr. POE commenced in the spring of 1841. He called at my hotel, and not finding me at home, left two letters of introduction. The next morning I visited him, and we had a long conversation about literature and literary men, pertinent to the subject of a book, "The Poets and Poetry of America," which I was then preparing for the press. The following letter was sent to me a few days afterwards:

PHILADELPHIA, March 29.

R. W. Griswold, Esq.: My Dear Sir:—On the other leaf I send such poems as I think my best, from which you can select any which please your fancy. I should be proud to see one or two of them in your book. The one called "The Haunted Palace" is that of which I spoke in reference to Professor Longfellow's plagiarism. I first published the "H. P." in Brooks's "Museum," a monthly journal at Baltimore, now dead. Afterwards, I embodied it in a tale called "The House of Usher," in Burton's magazine. Here it was, I suppose, that Professor Longfellow saw it; for, about six weeks afterwards, there appeared in the "Southern Literary Messenger" a poem by him called "The Beleaguered City," which may now be found in his volume. The identity in title is striking; for by "The Haunted Palace" I mean to imply a mind haunted by phantoms—a disordered brain—and by the "Beleaguered City" Prof. L. means just the same. But the whole tournure of the poem is based upon mine, as you will see at once. Its allegorical conduct, the style of its versification and expression—all are mine. As

I understood you to say that you meant to preface each set of poems by some biographical notice, I have ventured to send you the above memoranda—the particulars of which (in a case where an author is so little known as myself) might not be easily obtained elsewhere. "The Coliseum" was the prize poem alluded to.

With high respect and esteem, I am your obedient servant,

EDGAR A. POE.

The next is without date:

My Dear Sir:—I made use of your name with Carey & Hart, for a copy of your book, and am writing a review of it, which I shall send to Lowell for "The Pioneer." I like it decidedly. It is of immense importance, as a guide to what we have done; but you have permitted your good nature to influence you to a degree; I would have omitted at least a dozen whom you have quoted, and I can think of five or six that should have been in. But with all its faults—you see I am perfectly frank with you—it is a better book than any other man in the United States could have made of the materials. This I will say.

With high respect, I am your obedient servant,

EDGAR A. POE.

The next refers to some pecuniary matters:

PHILADELPHIA, June 11, 1843.

Dear Griswold:—Can you not send me $5? I am sick, and Virginia is almost gone. Come and see me. Peterson says you suspect me of a curious anonymous letter. I did not write it, but bring it along with you when you make the visit you promised to Mrs. Clemm. I will try to fix that matter soon. Could you do anything with my *note?*

Yours truly, E. A. P.

We had no further correspondence for more than a year. In this period he delivered a lecture upon "The Poets and Poetry of America," in which my book under that title was, I believe, very sharply reviewed. In the meantime advertisement was made of my intention to publish "The Prose Writers of America," and I received, one day, just as I was

leaving Philadelphia for New York, the following letter:

NEW-YORK, Jan. 10, 1845.

Rev. Rufus W. Griswold: Sir—I perceive by a paragraph in the papers, that your "Prose Writers of America" is in press. Unless your opinions of my literary character are entirely changed, you will, I think, like something of mine, and you are welcome to whatever best pleases you, if you will permit me to furnish a corrected copy; but with your present feelings you can hardly do me justice in any criticism, and I shall be glad if you will simply say after my name: "Born 1811; published Tales of the Grotesque and the Arabesque in 1839; has resided latterly in New-York."

Your obedient servant,
EDGAR A. POE.

I find my answer to this among his papers:

PHILADELPHIA, Jan. 11, 1845.

Sir:—Although I have some cause of quarrel with you, as you seem to remember, I do not under any circumstances permit, as you have repeatedly charged, my personal relations to influence the expression of my opinions as a critic. By the inclosed proof-sheets of what I had written before the reception of your note, you will see that I think quite as well of your works as I did when I had the pleasure of being

Your friend,
R. W. GRISWOLD.

This was not mailed until the next morning; I however left Philadelphia the same evening, and in the course of the following day POE and myself met in the office of "The Tribune," but without any recognition. Soon after he received my note, he sent the following to my hotel:

NEW-YORK, Jan. 16, 1845.

Dear Griswold—If you will permit me to call so—your letter occasioned me first pain and then pleasure: pain, because it gave me to see that I had lost, through my own

folly, an honorable friend:—pleasure, because I saw in it a hope of reconciliation. I have been aware, for several weeks, that my reasons for speaking of your book as I did, (of *yourself* I have always spoken kindly,) were based in the malignant slanders of a mischief maker by profession. Still, as I supposed you irreparably offended, I could make no advances when we met at the "Tribune" office, although I longed to do so. I know of nothing which would give me more sincere pleasure than your accepting these apologies, and meeting me as a friend. If you *can* do this, and forget the past, let me know where I shall call on you—or come and see me at the "Mirror" office, any morning about ten. We can then talk over the other matters, which, to me at least, are far less important than your good will.

Very truly yours,
EDGAR A. POE.

His next letter is dated February 24, 1845:

My dear Griswold:—A thousand thanks for your kindness in the matter of those books, which I could not afford to buy, and had so much need of. Soon after seeing you, I sent you, through Zieber, all my poems worth republishing, and I presume they reached you. I was sincerely delighted with what you said of them, and if you will write your criticism in the form of a preface, I shall be greatly obliged to you. I say this not because you praised me; everybody praises me now: but because you so perfectly understand me, or what I have aimed at, in all my poems: I did not think you had so much delicacy of appreciation joined with your strong sense; I can say truly that no man's approbation gives me so much pleasure. I send you with this another package, also through Zieber, by Burgess & Stringer. It contains, in the way of essay, "Mesmeric Revelation," which I would like to have go in, even if you have to omit the "House of Usher." I send also corrected copies of (in the way of funny criticism, but you don't like this) "Flaccus," which conveys a tolerable idea of my style; and of my serious manner "Barnaby Rudge" is a good specimen. In the tale line, "The Murders of the Rue Morgue." "The Gold Bug," and the "Man that was Used Up,"—far more than enough, but you can select to suit yourself. I prefer the "G. B." to the "M. in the R. M."

I have taken a third interest in the "Broadway Journal," and will be glad if you could send me anything for it. Why not let me anticipate the book publication of your splendid essay on Milton?

Truly yours,
POE.

The next is without date:

Dear Griswold:—I return the proofs with many thanks for your attentions. The poems look quite as well in the short metres as in the long ones, and I am quite content as it is. In "The Sleeper" you have "Forever with unclosed eye" for "Forever with unopen'd eye." Is it possible to make the correction? I presume you understand that in the repetition of my Lecture on the Poets, (in N. Y.) I left out *all* that was offensive to yourself. I am ashamed of myself that I ever said anything of you that was so unfriendly or so unjust; but what I *did* say I am confident has been misrepresented to you. See my notice of C. F. Hoffman's (?) sketch of you.

Very sincerely yours,
POE.

On the twenty-sixth of October, 1845, he wrote:

My dear Griswold:—*Will* you aid me at a pinch—at one of the greatest pinches conceivable? If you will, I will be indebted to you for life. After a prodigious deal of manœuvering, I have succeeded in getting the "Broadway Journal" entirely within my own control. It will be a fortune to me if I can hold it—and I can do it easily with a very trifling aid from my friends. May I count you as one? Lend me $50, and you shall never have cause to regret it.

Truly yours,
EDGAR A. POE.

And on the first of November:

My dear Griswold:—Thank you for the $25. And since you will allow me to draw upon you for the other half of what I asked, if it shall be needed at the end of a month, I am just as grateful as if it were all in hand,—for my friends here have acted generously by me. Don't have any more

doubts of my success. I am, by the way, preparing an article about you for the B. J., in which I do you justice—which is all *you* can ask of any one.

Ever truly yours,
EDGAR A. POE.

The next is without date, but appears to have been written early in 1849:

Dear Griswold:—Your uniform kindness leads me to hope that you will attend to this little matter of Mrs. L.——, to whom I truly think you have done less than justice. I am ashamed to ask favors of you, to whom I am so much indebted, but I have promised Mrs. L—— this. They lied to you, (if you told —— what he says you told him,) upon the subject of my forgotten Lecture on the American Poets. and I take this opportunity to say that what I have always held in conversations about you, and what I believe to be entirely true, as far as it goes, is contained in my notice of your "Female Poets of America," in the forthcoming "Southern Literary Messenger." By glancing at what I have published about you, (Aut, in Graham, 1841; Review in Pioneer, 1843; notice in B. Journal, 1845; Letter in Int., 1847; and the Review of your Female Poets,) you will see that I have never hazarded my own reputation by a disrespectful word of you, though there were, as I long ago explained, in consequence of ——'s false imputation of that beastly article to you, some absurd jokes at your expense in the Lecture at Philadelphia. Come up and see me: the cars pass within a few rods of the New-York Hotel, where I have called two or three times without finding you in.

Yours truly,
POE.

I soon after visited him at Fordham, and passed two or three hours with him. The only letter he afterward sent me—at least the only one now in my possession—follows:

Dear Griswold:—I inclose perfect copies of the lines "For Annie" and "Annabel Lee," in hopes that you may make room for them in your new edition. As regards

"Lenore," (which you were kind enough to say you would insert,) I would prefer the concluding stanza to run as here written.... It is a point of no great importance, but in one of your editions you have given my sister's age instead of mine. I was born in Dec. 1813; my sister, Jan. 1811. [The date of his birth to which he refers was printed from his statement in the memoranda referred to in the first of the letters here printed.—R. W. G.] Willis, whose good opinion I value highly, and of whose good word I have a right to be proud, has done me the honor to speak very pointedly in praise of "The Raven." I inclose what he said, and if you could contrive to introduce it, you would render me an essential favor, and greatly further my literary interests, at a point where I am most anxious they should be advanced.

Truly yours,
E. A. Poe.

P. S.—Considering my indebtedness to you, can you not sell to Graham or to Godey (with whom, you know, I cannot with the least self-respect again have anything to do directly)—can you not sell to one of these men, "Annabel Lee," say for $50, and credit me that sum? Either of them could print it before you will need it for your book. *Mem.* The Eveleth you ask about is a Yankee impertinent, who, knowing my extreme poverty, has for years pestered me with unpaid letters; but I believe almost every literary man of any note has suffered in the same way. I am surprised that you have escaped. Poe.

These are all the letters (unless I have given away some notes of his to autograph collectors) ever received by me from Mr. Poe. They are a sufficient answer to the article by John Neal, and to that under the signature of "George R. Graham," which have induced their publication. I did not undertake to dispose of the poem of "Annabel Lee," but upon the death of the author quoted it in the notes of him in "The Tribune," and I was sorry to learn soon after that it had been purchased and paid for by the proprietors of both "Sartain's Magazine," and "The Southern Literary Messenger." R. W. G.

New-York, September 2, 1850.

MEMOIR

The family of Edgar A. Poe was one of the oldest and most reputable in Baltimore. David Poe, his paternal grandfather, was a Quartermaster-General in the Maryland line during the Revolution, and the intimate friend of Lafayette, who, during his last visit to the United States, called personally upon the General's widow, and tendered her acknowledgments for the services rendered to him by her husband. His great-grandfather, John Poe, married in England, Jane, a daughter of Admiral James McBride, noted in British naval history, and claiming kindred with some of the most illustrious English families. His father, David Poe, jr., the fourth son of the Quartermaster-General, was several years a law student in Baltimore, but becoming enamored of an English actress, named Elizabeth Arnold, whose prettiness and vivacity more than her genius for the stage made her a favorite, he eloped with her, and after a short period, having married her, became himself an actor. They continued six or seven years in the theatres of the principal cities, and finally died, within a few weeks of each other, in Richmond, leaving three children, Henry Edgar, and Rosaline, in utter destitution.

Edgar Poe, who was born in Baltimore, in January 1811, was at this period of remarkable beauty, and precocious wit. Mr. John Allan, a merchant of large fortune and liberal disposition, who had been intimate with his parents, having no children of his own, adopted him, and it was generally understood among his acquaintances that he intended to make

him the heir of his estate. The proud, nervous irritability of the boy's nature was fostered by his guardian's well-meant but ill-judged indulgence. Nothing was permitted which could "break his spirit." He must be the master of his masters, or not have any. An eminent and most estimable gentleman of Richmond has written to me, that when Poe was only six or seven years of age, he went to a school kept by a widow of excellent character, to whom was committed the instruction of the children of some of the principal families in the city. A portion of the grounds was used for the cultivation of vegetables, and its invasion by her pupils strictly forbidden. A trespasser, if discovered, was commonly made to wear, during school hours, a turnip or carrot, or something of this sort, attached to his neck as a sign of disgrace. On one occasion Poe, having violated the rules, was decorated with the promised badge, which he wore in sullenness until the dismissal of the boys, when, that the full extent of his wrong might be understood by his patron, of whose sympathy he was confident, he eluded the notice of the schoolmistress, who would have relieved him of his esculent, and made the best of his way home, with it dangling at his neck. Mr. Allan's anger was aroused, and he proceeded instantly to the school-room, and after lecturing the astonished dame upon the enormity of such an insult to his son and to himself, demanded his account, determined that the child should not again be subjected to such tyranny. Who can estimate the effect of this puerile triumph upon the growth of that morbid self-esteem which characterized the author in after-life?

In 1816, he accompanied Mr. and Mrs. Allan to Great Britain, visited the most interesting portions

of the country, and afterwards passed four or five years in a school kept at Stoke Newington, near London, by the Rev. Dr. Bransby. In his tale, entitled "William Wilson," he has introduced a striking description of this school and of his life here. He says:

"My earliest recollections of a school life, are connected with a large, rambling, Elizabethan house, in a misty-looking village of England, where were a vast number of gigantic and gnarled trees, and where all the houses were excessively ancient. In truth, it was a dream-like and spirit-soothing place, that venerable old town. At this moment, in fancy, I feel the refreshing chilliness of its deeply-shadowed avenues, inhale the fragrance of its thousand shrubberies, and thrill anew with undefinable delight, at the deep hollow note of the church-bell, breaking, each hour, with sullen and sudden roar, upon the stillness of the dusky atmosphere in which the fretted Gothic steeple lay embedded and asleep. It gives me, perhaps, as much of pleasure as I can now in any manner experience, to dwell upon minute recollections of the school and its concerns. Steeped in misery as I am—misery, alas! only too real—I shall be pardoned for seeking relief, however slight and temporary, in the weakness of a few rambling details. These, moreover, utterly trivial, and even ridiculous in themselves, assume, to my fancy, adventitious importance, as connected with a period and a locality when and where I recognise the first ambiguous monitions of the destiny which afterwards so fully overshadowed me. Let me then remember. The house, I have said, was old and irregular. The grounds were extensive, and a high and solid brick wall, topped with a bed of mortar and broken glass, encompassed the whole. This prison-like rampart formed the limit of our domain; beyond it we saw but thrice a week—once every Saturday afternoon, when, attended by two ushers, we were permitted to take brief walks in a body through some of the neighboring fields—and twice during Sunday, when we were paraded in the same formal manner to the morning and evening service in the one church of the village. Of this church the principal of our school was pastor. With how deep a spirit of wonder and perplexity

was I wont to regard him from our remote pew in the gallery, as, with step solemn and slow, he ascended the pulpit! This reverend man, with countenance so demurely benign, with robes so glossy and so clerically flowing, with wig so minutely powdered, so rigid and so vast,—could this be he who, of late, with sour visage, and in snuffy habiliments, administered, ferule in hand, the Draconian Laws of the academy? Oh, gigantic paradox, too utterly monstrous for solution! At an angle of the ponderous wall frowned a more ponderous gate. It was riveted and studded with iron bolts, and surmounted with jagged iron spikes. What impressions of deep awe did it inspire! It was never opened save for the three periodical egressions and ingressions already mentioned; then, in every creak of its mighty hinges, we found a plenitude of mystery—a world of matter for solemn remark, for more solemn meditation. The extensive enclosure was irregular in form, having many capacious recesses. Of these, three or four of the largest constituted the play ground. It was level, and covered with fine hard gravel. I well remember it had no trees, nor benches, nor anything similar within it. Of course it was in the rear of the house. In front lay a small parterre, planted with box and other shrubs; but through this sacred division we passed only upon rare occasions indeed—such as a first advent to school or final departure thence, or perhaps, when a parent or friend having called for us, we joyfully took our way home for the Christmas or Midsummer holidays. But the house!—how quaint an old building was this!—to me how veritably a palace of enchantment! There was really no end to its windings—to its incomprehensible subdivisions. It was difficult at any given time, to say with certainty upon which of its two stories one happened to be. From each room to every other there were sure to be found three or four steps either in ascent or descent. Then the lateral branches were innumerable—inconceivable—and so returning in upon themselves, that our most exact ideas in regard to the whole mansion were not very far different from those with which we pondered upon infinity. During the five years of my residence here, I was never able to ascertain with precision, in what remote locality lay the little sleeping apartment assigned to myself and some eighteen or twenty other scholars. The school room was the largest in the

house—I could not help thinking, in the world. It was very long, narrow, and dismally low, with pointed Gothic windows and a ceiling of oak. In a remote and terror-inspiring angle was a square enclosure of eight or ten feet, comprising the *sanctum*, 'during hours,' of our principal, the Reverend Dr. Bransby. It was a solid structure, with massy door, sooner than open which in the absence of the 'Dominie,' we would all have willingly perished by the *peine forte et dure*. In other angles were two other similar boxes, far less reverenced, indeed, but still greatly matters of awe. One of these was the pulpit of the 'classical' usher, one of the 'English and mathematical.' Interspersed about the room, crossing and recrossing in endless irregularity, were innumerable benches and desks, black, ancient, and time-worn, piled desperately with much-bethumbed books, and so beseamed with initial letters, names at full length, grotesque figures, and other multiplied efforts of the knife, as to have entirely lost what little of original form might have been their portion in days long departed. A huge bucket with water stood at one extremity of the room, and a clock of stupendous dimensions at the other.

"Encompassed by the massy walls of this venerable academy, I passed yet not in tedium or disgust, the years of the third lustrum of my life. The teeming brain of childhood requires no external world of incident to occupy or amuse it; and the apparently dismal monotony of a school was replete with more intense excitement than my riper youth has derived from luxury, or my full manhood from crime. Yet I must believe that my first mental development had in it much of the uncommon—even much of the *outre*. Upon mankind at large the events of very early existence rarely leave in mature age any definite impression. All is gray shadow—a weak and irregular remembrance—an indistinct regathering of feeble pleasures and plantasmagoric pains. With me this is not so. In childhood I must have felt with the energy of a man what I now find stamped upon memory in lines as vivid, as deep, and as durable as the *exergues* of the Carthaginian medals. Yet in fact—in the fact of the world's view—how little was there to remember. The morning's awakening, the nightly summons to bed; the connings, the recitations; the periodical half-holidays and perambulations; the play-ground, with its broils, its pastimes, its intrigues; these, by a mental

sorcery long forgotten, were made to involve a wilderness of sensation, a world of rich incident, an universe of varied emotion, of excitement the most passionate and spirit-stirring. '*Oh, le bon temps, que ce siecle de fer!*' "

In 1822, he returned to the United States, and after passing a few months at an Academy in Richmond, he entered the University at Charlottesville, where he led a very dissipated life; the manners which then prevailed there were extremely dissolute; and he was known as the wildest and most reckless student of his class; but his unusual opportunities, and the remarkable ease with which he mastered the most difficult studies, kept him all the while in the first rank for scholarship, and he would have graduated with the highest honors, had not his gambling, intemperance, and other vices, induced his expulsion from the university.

At this period he was noted for feats of hardihood, strength and activity, and on one occasion, in a hot day of June, he swam from Richmond to Warwick, seven miles and a half, against a tide running probably from two to three miles an hour.* He was expert at fence, had some skill in drawing, and was a ready and eloquent conversationist and declaimer.

His allowance of money while at Charlottesville had been liberal, but he quitted the place very much in debt, and when Mr. Allan refused to accept some of the drafts with which he had paid losses in gaming he wrote to him an abusive letter, quitted his house,

* This statement was first printed during Mr. Poe's life-time, and its truth being questioned in some of the journals, the following certificate was published by a distinguished gentleman of Virginia:

"I was one of several who witnessed this swimming feat. We accompanied Mr. Poe in boats. Messrs. Robert Stannard, John Lyle, (since dead) Robert Saunders, John Munford, I think, and one or two others, were also of the party. Mr. P. did not seem at all fatigued, and *walked* back to Richmond immediately after the feat—which was undertaken for a wager.

"ROBERT G. CABELL."

and soon after left the country with the Quixotic intention of joining the Greeks, then in the midst of their struggle with the Turks. He never reached his destination, and we know but little of his adventures in Europe for nearly a year. By the end of this time he had made his way to St. Petersburgh, and our Minister in that capital, the late Mr. Henry Middleton, of South Carolina, was summoned one morning to save him from penalties incurred in a drunken debauch. Through Mr. Middleton's kindness he was set at liberty and enabled to return to this country.

His meeting with Mr. Allan was not very cordial, but that gentleman declared himself willing to serve him in any way that should seem judicious; and when Poe expressed some anxiety to enter the Military Academy, he induced Chief justice Marshall, Andrew Stevenson, General Scott, and other eminent persons, to sign an application which secured his appointment to a scholarship in that institution.

Mrs. Allan, whom Poe appears to have regarded with much affection, and who had more influence over him than any one else at this period, died on the twenty-seventh of February, 1829, which I believe was just before Poe left Richmond for West Point. It has been erroneously stated by all Poe's biographers, that Mr. Allan was now sixty-five years of age, and that Miss Paterson, to whom he was married afterward, was young enough to be his grand-daughter. Mr. Allan was in his forty-eighth year, and the difference between his age and that of his second wife was not so great as justly to attract any observation.

For a few weeks the cadet applied himself with much assiduity to his studies, and he became at once a favorite with his mess and with the officers and professors of the Academy; but his habits of dissipa-

tion were renewed; he neglected his duties and disobeyed orders; and in ten months from his matriculation he was cashiered.

He went again to Richmond, and was received into the family of Mr. Allan, who was disposed still to be his friend, and in the event of his good behavior to treat him as a son; but it soon became necessary to close his doors against him forever. According to Poe's own statement he ridiculed the marriage of his patron with Miss Paterson, and had a quarrel with her; but a different story,* scarcely suitable for repetition here, was told by the friends of the other party. Whatever the circumstances, they parted in anger, and Mr. Allan from that time declined to see or in any way to assist him. Mr. Allan died in the spring of 1834, in the fifty-fourth year of his age, leaving three children to share his property, of which not a mill was bequeathed to Poe.

Soon after he left West Point Poe had printed at Baltimore a small volume of verses, ("Al Aaraaf" of about four hundred lines, "Tamerlane," of about three hundred lines, with smaller pieces,) and the favorable manner in which it was commonly referred

* The writer of an eulogium upon the life and genius of Mr. Poe, in the *Southern Literary Messenger*, for March, 1850, thus refers to this point in his history:

"The story of the other side is different; and if true, throws a dark shade upon the quarrel, and a very ugly light upon Poe's character. We shall not insert it, because it is one of those relations which we think with Sir Thomas Browne, should never be recorded,—being "verities whose truth we fear and heartily wish there were no truth therein....whose relations honest minds do deprecate. For of sins heteroclital, and such as want name or precedent, there is oft-times a sin even in their history. We desire no record of enormities; sins should be accounted new. They omit of their monstrosity as they fall from their rarity; for men count it venial to err with their forefathers, and foolishly conceive they divide a sin in its society... In things of this nature, silence commendeth history; 'tis the veniable part of things lost; wherein there must never arise a Pancirollus, nor remain any register but that of hell."

to confirmed his belief that he might succeed in the profession of literature. The contents of the book appear to have been written when he was between sixteen and nineteen years of age; but though they illustrated the character of his abilities and justified his anticipation of success, they do not seem to me to evince, all things considered, a very remarkable precocity. The late Madame d'Ossoli refers to some of them as the productions of a boy of eight or ten years, but I believe there is no evidence that anything of his which has been published was written before he left the university. Certainly, it was his habit so constantly to labor upon what he had produced—he was at all times so anxious and industrious in revision —that his works, whenever first composed, displayed the perfection of his powers at the time when they were given to the press.

His contributions to the journals attracted little attention, and his hopes of gaining a living in this way being disappointed, he enlisted in the army as a private soldier. How long he remained in the service I have not been able to ascertain. He was recognised by officers who had known him at West Point, and efforts were made, privately, but with prospects of success, to obtain for him a commission, when it was discovered by his friends that he had deserted.

He had probably found relief from the monotony of a soldier's life in literary composition. His mind was never in repose, and without some such resort the dull routine of the camp or barracks would have been insupportable. When he next appears, he has a volume of MS. stories, which he desires to print under the title of "Tales of the Folio Club." An offer by the proprietor of the Baltimore "Saturday Visitor," of two prizes, one for the best tale and one

for the best poem, induced him to submit the pieces entitled "MS. found in a Bottle," "Lionizing," "The Visionary," and three others, with "The Coliseum," a poem, to the committee, which consisted of Mr. John P. Kennedy, the author of "Horse Shoe Robinson," Mr. J. H. B. Latrobe, and Dr. James H. Miller. Such matters are usually disposed of in a very off-hand way: Committees to award literary prizes drink to the payer's health in good wines, over unexamined MSS., which they submit to the discretion of publishers with permission to use their names in such a way as to promote the publisher's advantage. So perhaps it would have been in this case, but that one of the committee, taking up a little book remarkably beautiful and distinct in caligraphy, was tempted to read several pages; and becoming interested, he summoned the attention of the company to the half-dozen compositions it contained. It was unanimously decided that the prizes should be paid to "the first of geniuses who had written legibly." Not another MS. was unfolded. Immediately the "confidential envelope" was opened, and the successful competitor was found to bear the scarcely known name of Poe. The committee indeed awarded to him the premiums for both the tale and the poem, but subsequently altered their decision, so as to exclude him from the second premium, in consideration of his having obtained the higher one. The prize tale was the "MS. found in a Bottle." This award was published on the twelfth of October, 1833. The next day the publisher called to see Mr. Kennedy, and gave him an account of the author, which excited his curiosity and sympathy, and caused him to request that he should be brought to his office. Accordingly he was introduced; the prize-money had not yet been paid, and

he was in the costume in which he had answered the advertisement of his good fortune. Thin, and pale even to ghastliness, his whole appearance indicated sickness and the utmost destitution. A well-worn frock coat concealed the absence of a shirt, and imperfect boots disclosed the want of hose. But the eyes of the young man were luminous with intelligence and feeling, and his voice and conversation and manners all won upon the lawyer's regard. Poe told his history, and his ambition, and it was determined that he should not want means for a suitable appearance in society, nor opportunity for a just display of his abilities in literature. Mr. Kennedy accompanied him to a clothing store, and purchased for him a respectable suit, with changes of linen, and sent him to a bath, from which he returned with the suddenly regained style of a gentleman.

His new friends were very kind to him, and availed themselves of every opportunity to serve him. Near the close of the year 1834 the late Mr. T. W. White established in Richmond the "Southern Literary Messenger." He was a man of much simplicity, purity and energy of character, but not a writer, and he frequently solicited of his acquaintances literary assistance. On receiving from him an application for an article, early in 1835, Mr. Kennedy, who was busy with the duties of his profession, advised Poe to send one, and in a few weeks he had occasion to enclose the following answer to a letter from Mr. White.

"BALTIMORE, April, 13, 1835.

"*Dear Sir:* Poe did right in referring to me. He is very clever with his pen—classical and scholarlike. He wants experience and direction, but I have no doubt he can be made very useful to you. And, poor fellow! he is *very* poor. I told him to write something for every number of

your magazine, and that you might find it to your advantage to give him some permanent employ. He has a volume of very bizarre tales in the hands of ——, in Philadelphia, who for a year past has been promising to publish them. This young fellow is highly imaginative, and a little given to the *terrific*. He is at work upon a tragedy, but I have turned him to drudging upon whatever may make money, and I have no doubt you and he will find your account in each other."

In the next number of the "Messenger" Mr. White announced that Poe was its editor, or in other words, that he had made arrangements with a gentleman of approved literary taste and attainments to whose especial management the editorial department would be confided, and it was declared that this gentleman would "devote his exclusive attention to the work." Poe continued, however, to reside in Baltimore, and it is probable that he was engaged only as a general contributor and a writer of critical notices of books. In a letter to Mr. White, under the date of the thirtieth of May, he says:

"In regard to my critique of Mr. Kennedy's novel I seriously feel ashamed of what I have written. I fully intended to give the work a thorough review, and examine it in detail. Ill health alone prevented me from so doing. At the time I made the hasty sketch I sent you, I was so ill as to be hardly able to see the paper on which I wrote, and I finished it in a state of complete exhaustion. I have not, therefore, done anything like justice to the book, and I am vexed about the matter, for Mr. Kennedy has proved himself a kind friend to me in every respect, and I am sincerely grateful to him for many acts of generosity and attention. You ask me if I am perfectly satisfied with your course. I reply that I am—entirely. My poor services are not worth what you give me for them."

About a month afterward he wrote:

"You ask me if I would be willing to come on to Richmond if you should have occasion for my services during the

coming winter. I reply that nothing would give me greater pleasure. I have been desirous for some time past of paying a visit to Richmond, and would be glad of any reasonable excuse for so doing. Indeed I am anxious to settle myself in that city, and if, by any chance, you hear of a situation likely to suit me, I would gladly accept it, were the salary even the merest trifle. I should, indeed, feel myself greatly indebted to you if through your means I could accomplish this object. What you say in the conclusion of your letter, in relation to the supervision of proof-sheets, gives me reason to hope that possibly you might find something for me to do in your office. If so, I should be very glad—for at present only a very small portion of my time is employed."

He continued in Baltimore till September. In this period he wrote several long reviewals, which for the most part were rather abstracts of works than critical discussions, and published with others, "Hans Pfaall," a story in some respects very similar to Mr. Locke's celebrated account of Herschell's Discoveries in the Moon. At first he appeared to have been ill satisfied with Richmond, or with his duties, for in two or three weeks after his removal to that city we find Mr. Kennedy writing to him:

"I am sorry to see you in such plight as your letter shows you in. It is strange that just at this time, when every body is praising you, and when fortune is beginning to smile upon your hitherto wretched circumstances, you should be invaded by these blue devils. It belongs, however, to your age and temper to be thus buffeted—but be assured, it only wants a little resolution to master the adversary forever. You will doubtless do well henceforth in literature, and add to your *comforts* as well as to your reputation, which it gives me great pleasure to assure you is everywhere rising in popular esteem."

But he could not bear his good fortune. On receiving a month's salary he gave himself up to habits which only necessity had restrained at Baltimore.

For a week he was in a condition of brutish drunkenness, and Mr. White dismissed him. When he became sober, however, he had no resource but in reconciliation, and he wrote letters and induced acquaintances to call upon Mr. White with professions of repentance and promises of reformation. With his usual considerate and judicious kindness that gentleman answered him:

"*My dear Edgar:* I cannot address you in such language as this occasion and my feelings demand: I must be content to speak to you in my plain way. That you are sincere in all your promises I firmly believe. But when you once again tread these streets, I have my fears that your resolutions will fail, and that you will again drink till your senses are lost. If you rely on your strength you are gone. Unless you look to your Maker for help you will not be safe. How much I regretted parting from you is known to Him only and myself. I had become attached to you; I am still; and I would willingly say return, did not a knowledge of your past life make me dread a speedy renewal of our separation. If you would make yourself contented with quarters in my house, or with any other private family, where liquor is not used, I should think there was some hope for you. But, if you go to a tavern, or to any place where it is used at table, you are not safe. You have fine talents, Edgar, and you ought to have them respected, as well as yourself. Learn to respect yourself, and you will soon find that you are respected. Separate yourself from the bottle, and from bottle companions, forever. Tell me if you can and will do so. If you again become an assistant in my office, it must be understood that all engagements on my part cease the moment you get drunk. I am your true friend.

T. W. W."

A new contract was arranged, but Poe's irregularities frequently interrupted the kindness and finally exhausted the patience of his generous though methodical employer, and in the number of the "Messenger" for January, 1837, he thus took leave of its readers:

"*Mr. Poe's* attention being called in another direction, he will decline, with the present number, the editorial duties of the Messenger. His Critical Notices for this month end with Professor Anthon's Cicero—what follows is from another hand. With the best wishes to the magazine, and to its few foes as well as many friends, he is now desirous of bidding all parties a peaceful farewell."

While in Richmond, with an income of but five hundred dollars a year, he had married his cousin, Virginia Clemm, a very amiable and lovely girl, who was as poor as himself, and little fitted, except by her gentle temper, to be the wife of such a person. He went from Richmond to Baltimore, and after a short time, to Philadelphia, and to New-York. A slight acquaintance with Dr. Hawks had led that acute and powerful writer to invite his contributions to the "New-York Review," and he had furnished for the second number of it (for October, 1837) an elaborate but not very remarkable article upon Stephens's then recently published "Incidents of Travel in Egypt, Arabia Petrea, and the Holy Land." His abilities were not of the kind demanded for such a work, and he never wrote another paper for this or for any other Review of the same class. He had commenced in the "Literary Messenger," a story of the sea, under the title of "Arthur Gordon Pym,"* and upon the recommendation of

* The Narrative of Arthur Gordon Pym, of Nantucket; comprising the Details of a Mutiny and Atrocious Butchery on board the American Brig Grampus, on her way to the South Seas—with an Account of the Re-capture of the vessel by the Survivors; their Shipwreck, and subsequent Horrible Sufferings from Famine; their Deliverance by means of the British schooner Jane Gray; the brief Cruise of this latter Vessel in the Antarctic Ocean; her Capture, and the Massacre of her Crew among a Group of Islands in the 84th parallel of southern latitude; together with the incredible Adventures and Discoveries still further South, to which that distressing Calamity gave rise.—1 vol. 12mo. pp. 198. New-York, Harper & Brothers. 1838.

Mr. Paulding and others, it was printed by the Harpers. It is his longest work, and is not without some sort of merit, but it received little attention. The publishers sent one hundred copies to England, and being mistaken at first for a narrative of real experiences, it was advertised to be reprinted, but a discovery of its character, I believe prevented such a result. An attempt is made in it, by simplicity of style, minuteness of nautical descriptions, and circumstantiality of narration, to give it that air of truth which constitutes the principal attraction of Sir. Edward Seaward's Narrative, and Robinson Crusoe; but it has none of the pleasing interests of these tales; it is as full of wonders as Munchausen, has as many atrocities as the Book of Pirates, and as liberal an array of paining and revolting horrors as ever was invented by Anne Radcliffe or George Walker. Thus far a tendency to extravagance had been the most striking infirmity of his genius. He had been more anxious to be intense than to be natural; and some of his *bizarrêries* had been mistaken for satire, and admired for that quality. Afterward he was more judicious, and if his outlines were incredible it was commonly forgotten in the simplicity of his details and their cohesive cumulation.

Near the end of the year 1838 he settled in Philadelphia. He had no very definite purposes, but trusted for support to the chances of success as a magazinist and newspaper correspondent. Mr. Burton, the comedian, had recently established the "Gentleman's Magazine," and of this he became a contributor, and in May, 1839, the chief editor, devoting to it, for ten dollars a week, two hours every day, which left him abundant time for more important labors. In the same month he agreed to furnish such reviewals as he had written for the "Literary Messenger," for

the "Literary Examiner," a new magazine at Pittsburgh. But his more congenial pursuit was tale writing, and he produced about this period some of his most remarkable and characteristic works in a department of imaginative composition in which he was henceforth alone and unapproachable. The "Fall of the House of Usher," and "Legeia," are the most interesting illustrations of his mental organization—his masterpieces in a peculiar vein of romantic creation. They have the unquestionable stamp of genius. The analyses of the growth of madness in one, and the thrilling revelations of the existence of a first wife in the person of a second, in the other, are made with consummate skill; and the strange and solemn and fascinating beauty which informs the style and invests the circumstances of both, drugs the mind, and makes us forget the improbabilities of their general design.

An awakened ambition and the healthful influence of a conviction that his works were appreciated, and that his fame was increasing, led him for a while to cheerful views of life, and to regular habits of conduct. He wrote to a friend, the author of "Edge Hill," in Richmond, that he had quite overcome "the seductive and dangerous besetment" by which he had so often been prostrated, and to another friend that, incredible as it might seem, he had become a "model of temperance," and of "other virtues," which it had sometimes been difficult for him to practise. Before the close of the summer, however, he relapsed into his former courses, and for weeks was regardless of everything but a morbid and insatiable appetite for the means of intoxication.

In the autumn he published all the prose stories he had then written, in two volumes, under the title of "Tales of the Grotesque and the Arabesque."

The work was not saleable, perhaps because its contents were too familiar from recent separate publication in magazines; and it was not so warmly praised, generally, as I think it should have been, though in point of style the pieces which it embraced are much less perfect than they were made subsequently.

He was with Mr. Burton until June, 1840—more than a year. Mr. Burton appreciated his abilities and would gladly have continued the connexion; but Poe was so unsteady of purpose and so unreliable that the actor was never sure when he left the city that his business would be cared for. On one occasion, returning after the regular day of publication, he found the number unfinished, and Poe incapable of duty. He prepared the necessary copy himself, published the magazine, and was proceeding with arrangements for another month, when he received a letter from his assistant, of which the tone may be inferred from this answer:

"I am sorry you have thought it necessary to send me such a letter. Your troubles have given a morbid tone to your feelings which it is your duty to discourage. I myself have been as severely handled by the world as you can possibly have been, but my sufferings have not tinged my mind with melancholy, nor jaundiced my views of society. You must arouse your energies, and if care assail you, conquer it. I will gladly overlook the past. I hope you will as easily fulfil your pledges for the future. We shall agree very well, though I cannot permit the magazine to be made a vehicle for that sort of severity which you think is so "successful with the mob." I am truly much less anxious about making a monthly "sensation" than I am upon the point of fairness. You must, my dear sir, get rid of your avowed ill-feelings toward your brother authors. You see I speak plainly: I cannot do otherwise upon such a subject. You say the people love havoc. I think they love justice. I think you yourself would not have written the article on

Dawes, in a more healthy state of mind. I am not trammelled by any vulgar consideration of expediency; I would rather lose money than by such undue severity wound the feelings of a kind-hearted and honorable man. And I am satisfied that Dawes has something of the true fire in him. I regretted your word-catching spirit. But I wander from my design. I accept your proposition to recommence your interrupted avocations upon the *Maga*. Let us meet as if we had not exchanged letters. Use more exercise, write when feelings prompt, and be assured of my friendship. You will soon regain a healthy activity of mind, and laugh at your past vagaries."

This letter was kind and judicious. It gives us a glimpse of Poe's theory of criticism, and displays the temper and principles of the literary comedian in an honorable light. Two or three months afterwards Burton went out of town to fulfil a professional engagement, leaving material and directions for completing the next number of the magazine in four days. He was absent nearly a fortnight, and on returning he found that his printers in the meanwhile had not received a line of copy; but that Poe had prepared the prospectus of a new monthly, and obtained transcripts of his subscription and account books, to be used in a scheme for supplanting him. He encountered his associate late in the evening at one of his accustomed haunts, and said, "Mr. Poe, I am astonished; Give me my manuscript so that I can attend to the duties you have so shamefully neglected, and when you are sober we will settle." Poe interrupted him with "Who are you that presume to address me in this manner? Burton, I am—*the editor—of the Penn Magazine*—and you are—hiccup—*a fool.*" Of course this ended his relations with the "Gentleman's."

In November, 1840, Burton's miscellany was merged in "*The Casket,*" owned by Mr. George R.

Graham, and the new series received the name of its proprietor, who engaged Poe in its editorship. His connexion with "Graham's Magazine" lasted about a year and a half, and this was one of the most active and brilliant periods of his literary life. He wrote in it several of his finest tales and most trenchant criticisms, and challenged attention by his papers entitled "Autography," and those on cryptology and cyphers. In the first, adopting a suggestion of Lavater, he attempted the illustration of character from handwriting; and in the second, he assumed that human ingenuity could construct no secret writing which human ingenuity could not resolve: a not very dangerous proposition, since it implied no capacity in himself to discover every riddle of this kind that should be invented. He however succeeded with several difficult cryptographs that were sent to him, and the direction of his mind to the subject led to the composition of some of the tales of ratiocination which so largely increased his reputation. The infirmities which induced his separation from Mr. White and from Mr. Burton at length compelled Mr. Graham to seek for another editor; but Poe still remained in Philadelphia, engaged from time to time in various literary occupations, and in the vain effort to establish a journal of his own to be called "The Stylus." Although it requires considerable capital to carry on a monthly of the description he proposed, I think it would not have been difficult, with his well-earned fame as a magazinist, for him to have found a competent and suitable publisher, but for the unfortunate notoriety of his habits, and the failure in succession of three persons who had admired him for his genius and pitied him for his misfortunes, by every means that tact or friendship could suggest, to induce the con-

sistency and steadiness of application indispensable to success in such pursuits. It was in the spring of 1848—more than a year after his dissociation from Graham—that he wrote the story of "The Gold Bug," for which he was paid a prize of one hundred dollars. It has relation to Captain Kyd's treasure, and is one of the most remarkable illustrations of his ingenuity of construction and apparent subtlety of reasoning. The interest depends upon the solution of an intricate cypher. In the autumn of 1844 Poe removed to New-York.

It was while he resided in Philadelphia that I became acquainted with him. His manner, except during his fits of intoxication, was very quiet and gentlemanly; he was usually dressed with simplicity and elegance; and when once he sent for me to visit him, during a period of illness caused by protracted and anxious watching at the side of his sick wife, I was impressed by the singular neatness and the air of refinement in his home. It was in a small house, in one of the pleasant and silent neighborhoods far from the centre of the town, and though slightly and cheaply furnished, everything in it was so tasteful and so fitly disposed that it seemed altogether suitable for a man of genius. For this and for most of the comforts he enjoyed in his brightest as in his darkest years, he was chiefly indebted to his mother-in-law, who loved him with more than maternal devotion and constancy.

He had now written his most acute criticisms and his most admirable tales. Of tales, besides those to which I have referred, he had produced "The Descent into the Mælstrom," "The Premature Burial," "The Purloined Letter," "The Murders of the Rue Morgue," and its sequel," "The Mystery of Marie Roget." The scenes of the last three are in Paris,

where the author's friend, the Chevalier Auguste Dupin, is supposed to reveal to him the curiosities of his experience and observation in matters of police. "The Mystery of Marie Roget" was first published in the autumn of 1842, before an extraordinary excitement, occasioned by the murder of a young girl named Mary Rogers, in the vicinity of New-York, had quite subsided, though several months after the tragedy. Under pretence of relating the fate of a Parisian *grisette*, Mr. Poe followed in minute detail the essential while merely paralleling the inessential facts of the real murder. His object appears to have been to reinvestigate the case and to settle his own conclusions as to the probable culprit. There is a great deal of hair-splitting in the incidental discussions by Dupin, throughout all these stories, but it is made effective. Much of their popularity, as well as that of other tales of ratiocination by Poe, arose from their being in a new key. I do not mean to say that they are not ingenious; but they have been thought more ingenious than they are, on account of their method and air of method. In "The Murders of the Rue Morgue," for instance, what ingenuity is displayed in unravelling a web which has been woven for the express purpose of unravelling? The reader is made to confound the ingenuity of the supposititious Dupin with that of the writer of the story. These works brought the name of Poe himself somewhat conspicuously before the law courts of Paris. The journal, *La Commerce*, gave a *feuilleton* in which "The Murders of the Rue Morgue" appeared in translation. Afterward a writer for *La Quotidienne* served it for that paper under the title of "*L'Orang-Otang.*" A third party accused *La Quotidienne* of plagiary from *La Commerce*, and in the course of the legal investigation

which ensued, the *feuilletoniste* of *La Commerce* proved to the satisfaction of the tribunal that he had stolen the tale entirely from Mr. Poe,* whose merits

* The controversy is wittily described in the following extract from a Parisian journal, *L'Entr Acte*, of the twentieth of October, 1846:

"Un grand journal accusait l'autre jour M. Old-Nick d'avoir volé un orang-outang. Cet intéressant animal flânait dans le feuilleton de *la Quotidienne*, lorsque M. Old-Nick le vit, le trouva à son goût et s'en empara. Notre confrére avait sans doute besoin d'un groom. On sait que les Anglais ont depuis long-temps colonisé les orangs-outangs, et les ont instruits dans l'art de porter les lettres sur un plateau de vermeil, et de vernir les bottes. Il paraîtrait, toujours suivant le même grand journal, que M. Old-Nick, après avoir derobé cet orang-outang à *la Quotidienne*, l'aurait ensuite cédé au *Commerce* comme propriété à lui appartenant. Je sais que M. Old-Nick est un garçon plein d'esprit et plein d'honneur, assez riche de son propre fonds pour ne pas s'approprier les oranges-outangs des autres; cette accusatioa me surprit. Aprés tout, mej dis-je, il y a éu des monomanies plus extraordinaires que celle-là; le grand Bacon ne pouvait voir un bâton de cire à cacheter sans se l'approprier: dans une conférence avec M. de Metternich aux Tuileries, l'Empereur s'aperçut que le diplomate autrîchien glissait des pains à cacheter dans sapoche. M. Old-Nick a une autre manie, il fait les orangs-outangs. Je m'attendais toujours à ce que *la Quotidienne* jetât feu et flammes et demandât à grands cris son homme des bois. Il faut vous dire que j'avais lu son histoire dans *le Commerce*, elle était charmante d'esprit et de style, pleine de rapidité et de désinvolture; *la Quotidienne* l'avait également publiée, mais en trois feuilletons. L'orang-outang du *Commerce* n'avait que neuf colonnes. Il s'agissait donc d'un autre quadrumane littéraire. Ma foi non! c'était le même; seulement il n'appartenait ni à *la Quotidienne*, ni au *Commerce*. M. Old-Nick l'avait emprunté à un romancier Américain qu'il est en train d'inventer dans la *Revue des Deux-Mondes*. Ce romancier s'appelle Poë; je ne dis pas le contraire. Voilà donc un écrivain qui use du droit légitime d'arranger les nouvelles d'un romancier Américain qu'il a inventé, et on l'accuse de plagiat, de vol au feuilleton; on alarme ses amis en leur faisant croire que cet écrivain est possédé de la monomanie des orangs-outangs. Par la Courchamps! voilà qui me paraît léger. M. Old-Nick a écrit au journal en question une réponse pour rétablir sa moralité, attaquée à l'endroit des orangs-outangs. Cet orang-outang a mis, ces jours derniers, toute la littérature en émoi; personne n'a cru un seul instant à l'accusation qu'on a essayé de faire peser sur M. Old-Nick, d'autant plus qu'il avait pris soin d'nndiquer luimême la cage où il avait pris son orang-outang. Ceci va fournir de nouvelles armes à la secte qui croit aux romanciers Américains. Le préjugé de l'existence de Cooper en prendra de nouvelles

were soon after canvassed in the "*Revue des Deux Mondes*," and whose best tales were upon this impulse translated by Mme. Isabelle Meunier for the *Democratic Pacifique* and other French gazettes.

In New-York Poe entered upon a new sort of life. Heretofore, from the commencement of his literary career, he had resided in provincial towns. Now he was in a metropolis, and with a reputation which might have served as a passport to any society he could desire. For the first time he was received into circles capable of both the appreciation and the production of literature. He added to his fame soon after he came to the city by the publication of that remarkable composition "The Raven," of which Mr. Willis has observed that in his opinion "it is the most effective single example of fugitive poetry ever published in this country, and is unsurpassed in English poetry for subtle conception, masterly ingenuity of versification, and consistent sustaining of imaginative lift;" and by that of one of the most extraordinary instances of the naturalness of detail—the verisimilitude of minute narrative—for which he was preëminently distinguished, his "Mesmeric Revelation," purporting to be the last conversation of a somnambule, held just before death with his magnetizer; which was followed by the yet more striking exhibition of abilities in the same way, entitled "The Facts in the Case of M. Valdemar," in which the subject is represented as having been mesmerized in *articulo mortis*. These pieces were reprinted throughout the literary and philosophical world, in nearly all languages, everywhere causing sharp and curious speculation, and where readers

forces. En attendant que la vérité se découvre, nous sommes forcés de convenir que ce Poë est un gaillard bien fin, bien spirituel, quand il est arrangé par M. Old-Nick.

could be persuaded that they were fables, challenging a reluctant but genuine admiration.

He had not been long in New-York before he was engaged by Mr. Willis and General Morris as critic and assistant editor of "The Mirror." He remained in this situation about six months, when he became associated with Mr. Briggs in the conduct of the "Broadway Journal," which in October, 1845, passed entirely into his possession. He had now the long-sought but never before enjoyed absolute control of a literary gazette, and, with much friendly assistance, he maintained it long enough to show that whatever his genius, he had not the kind or degree of talent necessary to such a position. His chief critical writings in the "Broadway Journal," were a paper on Miss Barrett's Poems and a long discussion of the subject of plagiarism, with especial reference to Mr. Longfellow. In March, 1845, he had given a lecture at the Society Library upon the American poets, composed, for the most part, of fragments of his previously published reviewals; and in the autumn he accepted an invitation to read a poem before the Boston Lyceum. A week after the event, he printed in the "Broadway Journal" the following account of it, in reply to a paragraph in one of the city papers, founded upon a statement in the Boston "Transcript."

"Our excellent friend, Major Noah, has suffered himself to be cajoled by that most beguiling of all beguiling little divinities, Miss Walter, of 'The Transcript.' We have been looking all over her article with the aid of a taper, to see if we could discover a single syllable of truth in it—and really blush to acknowledge that we cannot. The adorable creature has been telling a parcel of fibs about us, by way of revenge for something that we did to Mr. Longfellow (who admires her very much) and for calling her 'a pretty little witch' into the bargain. The facts of the case seem

to be these: We *were* invited to 'deliver' (stand and deliver) a poem before the Boston Lyceum. As a matter of course, we accepted the invitation. The audience *was* 'large and distinguished.' Mr. Cushing* preceded us with a very capital discourse: he was much applauded. On arising, we were most cordially received. We occupied some fifteen minutes with an apology for not 'delivering,' as is usual in such cases, a didactic poem; a didactic poem, in our opinion, being precisely no poem at all. After some farther words—still of apology—for the 'indefinitiveness' and 'general imbecility' of what we had to offer—all so unworthy a *Bostonian* audience—we commenced, and, with many interruptions of applause, concluded. Upon the whole the approbation was considerably more (the more the pity too) than that bestowed upon Mr. Cushing. When we had made an end, the audience, of course, arose to depart; and about one-tenth of them, probably, had really departed, when Mr. Coffin, one of the managing committee, arrested those who remained, by the announcement that we had been requested to deliver 'The Raven.' We delivered 'The Raven' forthwith—(without taking a receipt)—were very cordially applauded again—and this was the end of it—with the exception of the sad tale invented to suit her own purposes, by that amiable little enemy of ours, Miss Walter. We shall never call a woman 'a pretty little witch' again, as long as we live.

"We like Boston. We were born there—and perhaps it is just as well not to mention that we are heartily ashamed of the fact. The Bostonians are very well in their way. Their hotels are bad. Their pumpkin pies are delicious. Their poetry is not so good. Their common is no common thing—and the duck-pond might answer—if its answer could be heard for the frogs. But with all these good qualities the Bostonians have no soul. They have always evinced towards us, individually, the basest ingratitude for the services we rendered them in enlightening them about the originality of Mr. Longfellow. When we accepted, therefore, an invitation to 'deliver' a poem in Boston—we accepted it simply and solely, because we had a curiosity to know how it felt to be publicly hissed—and because we wished to see what effect we could produce by a neat little

*Hon. Caleb Cushing, then recently returned from his mission to China.

impromptu speech in reply. Perhaps, however, we overrated our own importance, or the Bostonian want of common civility—which is not quite so manifest as one or two of their editors would wish the public to believe. We assure Major Noah that he is wrong. The Bostonians are well-bred—as very *dull* persons very generally are. Still, with their vile ingratitude staring us in the eyes, it could scarcely be supposed that we would put ourselves to the trouble of composing for the Bostonians anything in the shape of an *original* poem. We did not. We had a poem (of about 500 lines) lying by us—one quite as good as new—one, at all events, that we considered would answer sufficiently well for an audience of Transcendentalists. *That* we gave them—it was the best that we had—for the price—and it *did* answer remarkably well. Its name was *not* 'The Messenger-Star'—who but Miss Walter would ever think of so delicious a little bit of invention as that? We had no name for it at all. The poem is what is occasionally called a 'juvenile poem'—but the fact is, it is anything but juvenile now, for we wrote it, printed it, and published it, in book-form, before we had fairly completed our tenth year. We read it *verbatim*, from a copy now in our possession, and which we shall be happy to show at any moment to any of our inquisitive friends. We do not, ourselves, think the poem a remarkably good one:—it is not sufficiently transcendental. Still it did well enough for the Boston audience—who evinced characteristic discrimination in understanding, and especially applauding, all those knotty passages which we ourselves have not yet been able to understand.

"As regards the anger of the 'Boston Times' and one or two other absurdities—as regards, we say, the wrath of Achilles—we incurred it—or rather its manifestation—by letting some of our cat out of the bag a few hours sooner than we had intended. Over a bottle of champagne, that night, we confessed to Messrs. Cushing, Whipple, Hudson, Fields, and a few other natives who swear not altogether by the frog-pond—we confessed, we say, the soft impeachment of the hoax. *Et hinc illae irae.* We should have waited a couple of days."

It is scarcely necessary to suggest that this must have been written before he had quite recovered

from the long intoxication which maddened him at the time to which it refers—that he was not born in Boston, that the poem was not published in his tenth year, and that the "hoax" was all an afterthought. Two weeks later he renewed the discussion of the subject in the "Broadway Journal," commenting as follows upon allusions to it by other parties:

"Were the question demanded of us—'What is the most exquisite of sublunary pleasures?' we should reply, without hesitation, the making a fuss, or, in the classical words of a western friend, the 'kicking up a bobbery.' Never was a 'bobbery' more delightful than which we have just succeeded in 'kicking up' all around about Boston Common. We never saw the Frogpondians so lively in our lives. Thy seem absolutely to be upon the point of waking up. In about nine days the puppies may get open their eyes. That is to say they may get open their eyes to certain facts which have long been obvious to all the world except themselves—the facts that there exist other cities than Boston—other men of letters than Professor Longfellow—other vehicles of literary information than the 'Down-East Review.'

"We had *tact* enough not to be 'taken in and done for' by the Bostonians. *Timeo Danaos et dona ferentes*—(*for timeo* substitute *contemno* or *turn-up-our-nose-o*). We knew very well that among a certain *clique* of the Frogpondians, there existed a predetermination to abuse us under *any* circumstances. We know that, write what we would, they would swear it to be worthless. We knew that were we to compose for them a 'Paradise Lost,' they would pronounce it an indifferent poem. It would have been very weak in us, then, to put ourselves to the trouble of attempting to please these people. We preferred pleasing ourselves. We read before them a 'juvenile'—a *very* 'juvenile' poem—and thus the Frogpondians were *had*—were delivered up to the enemy bound hand and foot. Never were a set of people more completely demolished. They have blustered and flustered—but what have they done or said that has not made them more thoroughly ridiculous?—what, in the name of Momus, is it *possible* for

them to do or to say? We 'delivered' them the 'juvenile poem' and they received it with applause. This is accounted for by the fact that the *clique* (contemptible in numbers as in everything else) were overruled by the rest of the assembly. These malignants did not *dare* to interrupt by their preconcerted hisses, the respectful and profound attention of the majority. We have been told, indeed, that as many as three or four of the personal friends of the little old lady entitled Miss Walter, did actually leave the hall during the recitation—but, upon the whole, this was the very best thing they could do. We have been told this, we say—we did not *see* them take their departure:—the fact is they belong to a class of people that we make it a point *never to see*. The poem being thus well received, in spite of this ridiculous little cabal—the next thing to be done was to abuse it in the papers. Here, they imagined, they were sure of their game. But what have they accomplished? The poem, they say, is bad. We admit it. We insisted upon this fact in our prefatory remarks, and we insist upon it now, over and over again. It *is* bad—it is wretched—and what then? We wrote it at ten years of age—had it been worth even a pumpkin-pie undoubtedly we should not have 'delivered' it to *them*. To demonstrate its utter worthlessness, 'The Boston Star' has copied the poem in full, with two or three columns of criticism (we suppose) by way of explaining that we should have been hanged for its perpetration. There is no doubt of it whatever—we should. 'The Star,' however, (a dull luminary) has done us more honor than it intended; it has copied our *third* edition of the poem, revised and improved. We considered this too good for the occasion by one-half, and so 'delivered' the *first* edition with all its imperfections on its head. It is the first—the original edition—the *delivered* edition—which we now republish in our collection of Poems."

When he accepted the invitation of the Lyceum he intended to write an original poem, upon a subject which he said had haunted his imagination for years; but cares, anxieties, and feebleness of will, prevented; and a week before the appointed night he wrote to a friend, imploring assistance. "You

compose with such astonishing facility," he urged in his letter, "that you can easily furnish me, quite soon enough, a poem that shall be equal to my reputation. For the love of God I beseech you to help me in this extremity." The lady wrote him kindly, advising him judiciously, but promising to attempt the fulfilment of his wishes. She was, however, an invalid, and so failed.* At last, instead of pleading illness himself, as he had previously done on a similar occasion, he determined to read his poem of "Al Aaraaf," the original publication of which, in 1829, has already been stated.

The last number of the "Broadway Journal" was published on the third of January, 1846, and Poe soon after commenced the series of papers entitled "The Literati of New-York City," which were published in "The Lady's Book" in six numbers, from May to October. Their spirit, boldness, and occasional causticity, caused them to be much talked about, and three editions were necessary to supply the demand for some numbers of the magazine containing them. They however led to a disgraceful quarrel, and this to their premature conclusion. Dr. Thomas Dunn English, who had at one time sustained the most intimate relations with Poe, chose to evince his resentment of the critic's unfairness by the publication of a card in which he painted strongly the infirmities of Poe's life and character, and alleged that he had on several occasions inflicted upon him personal chastisement. This was not a wise confession, for a gentleman never appeals to his physical abilities except for defence. But the entire publication, even if every word of it were true,

* This lady was the late Mrs. Osgood, and a fragment of what she wrote under these circumstances may be found in the last edition of her works under the title of "Lulin, or the Diamond Fay."

was unworthy of Dr. English, unnecessary, and not called for by Poe's article, though that, as every one acquainted with the parties might have seen, was entirely false in what purported to be its facts. The statement of Dr. English appeared in the New-York "Mirror" of the twenty-third of June, and on the twenty-seventh Mr. Poe sent to Mr. Godey for publication in the "Lady's Book" his rejoinder, which would have made about five of the large pages of that miscellany. Mr. Godey very properly declined to print it, and observed, in the communication of his decision, that the tone of the article was regarded as unsuitable for his work and as altogether wrong. In compliance with the author's wishes, however, he had caused its appearance in a daily paper. Poe then wrote to him:

"The man or men who told you that there was anything wrong in *the tone* of my reply were either my enemies, or your enemies, or asses. When you see them, tell them so, from me. I have never written an article upon which I more confidently depend for *literary* reputation than that Reply. Its merit lay in its being precisely adapted to its purpose. In this city I have had upon it the favorable judgments of the best men. All the error about it was yours. You should have done as I requested—published it in the 'Book.' It is of no use to conceive a plan if you have to depend upon another for its execution."

Nevertheless, I agree with Mr. Godey. Poe's article was as bad as that of English. Yet a part of one of its paragraphs is interesting, and it is here transcribed:

—"Let me not permit any profundity of disgust to induce, even for an instant, a violation of the dignity of truth. What is *not false*, amid the scurrility of this man's statements, it is not in my nature to brand as false, although oozing from the filthy lips of which a lie is the only natural language. The errors and frailties which I deplore, it

cannot at least be asserted that I have been the coward to deny. Never, even, have I made attempt at *extenuating* a weakness which is (or, by the blessing of God, *was*) a calamity, although those who did not know me intimately had little reason to regard it otherwise than as a crime. For, indeed, had my pride, or that of my family permitted, there was much—very much—there was everything—to be offered in extenuation. Perhaps, even, there was an epoch at which it might not have been wrong in me to hint—what by the testimony of Dr. Francis and other medical men I might have demonstrated, had the public, indeed, cared for the demonstration—that the irregularities so profoundly lamented were the *effect* of a terrible evil rather than its cause.—And now let me thank God that in redemption from the physical ill I have forever got rid of the moral."

Dr. Francis never gave any such testimony. On one occasion Poe borrowed fifty dollars from a distinguished literary woman of South Carolina, promising to return it in a few days, and when he failed to do so, and was asked for a written acknowledgment of the debt that might be exhibited to the husband of the friend who had thus served him, he denied all knowledge of it, and threatened to exhibit a correspondence which he said would make the woman infamous, if she said any more on the subject. Of course there had never been any such correspondence, but when Poe heard that a brother of the slandered party was in quest of him for the purpose of taking the satisfaction supposed to be due in such cases, he sent for Dr. Francis and induced him to carry to the gentleman his retraction and apology, with a statement which seemed true enough at the moment, that Poe was "out of his head." It is an ungracious duty to describe such conduct in a person of Poe's unquestionable genius and capacities of greatness, but those who are familiar with the career of this extraordinary creature can recall

but too many similar anecdotes; and as to his intemperance, they perfectly well understand that its pathology was like that of ninety-nine of every hundred cases of the disease.

As the autumn of 1846 wore on Poe's habits of frequent intoxication and his inattention to the means of support reduced him to much more than common destitution. He was now living at Fordham, several miles from the city, so that his necessities were not generally known even among his acquaintances; but when the dangerous illness of his wife was added to his misfortunes, and his dissipation and accumulated causes of anxiety had prostrated all his own energies, the subject was introduced into the journals. The "Express" said:

"We regret to learn that Edgar A. Poe and his wife are both dangerously ill with the consumption, and that the hand of misfortune lies heavy upon their temporal affairs. We are sorry to mention the fact that they are so far reduced as to be barely able to obtain the necessaries of life. This is indeed a hard lot, and we hope that the friends and admirers of Mr. Poe will come promptly to his assistance in his bitterest hour of need."

Mr. Willis, in an article in the "Home Journal" suggesting a hospital for disabled laborers with the brain, said—

"The feeling we have long entertained on this subject, has been freshened by a recent paragraph in the 'Express,' announcing that Mr. Edgar A. Poe and his wife were both dangerously ill, and suffering for want of the common necessaries of life. Here is one of the finest scholars, one of the most original men of genius, and one of the most industrious of the literary profession of our country, whose temporary suspension of labor, from bodily illness, drops him immediately to a level with the common objects of public charity. There was no intermediate stopping-place—no respectful shelter where, with the delicacy due

to genius and culture, he might secure aid, unadvertised, till, with returning health, he could resume his labors and his unmortified sense of independence. He must either apply to indivdual friends—(a resource to which death is sometimes almost preferable)—or *suffer down* to the level where Charity receives claimants, but where Rags and Humiliation are the only recognised Ushers to her presence. In this right? Should there not be, in all highly civilized communities, an Institution designed expressly for educated and refined objects of charity—a hospital, a retreat, a home of seclusion and comfort, the sufficient claims to which would be such susceptibilities as are violated by the above mentioned appeal in a daily newspaper."

The entire article from which this paragraph is taken, was an ingenious apology for Mr. Poe's infirmities; but it was conceived and executed in a generous spirit, and it had a quick effect in various contributions which relieved the poet from pecuniary embarrassments. The next week he published the following letter:

"*My Dear Willis:*—The paragraph which has been put in circulation respecting my wife's illness, my own, my poverty, etc., is now lying before me; together with the beautiful lines by Mrs. Locke and those by Mrs. ——, to which the paragraph has given rise, as well as your kind and manly comments in 'The Home Journal.' The motive of the paragraph I leave to the conscience of him or her who wrote it or suggested it. Since the thing is done, however, and since the concerns of my family are thus pitilessly thrust before the public, I perceive no mode of escape from a public statement of what is true and what erroneous in the report alluded to. That my wife is ill, then, is true; and you may imagine with what feelings I add that this illness, hopeless from the first, has been heightened and precipitated by her reception at two different periods, of anonymous letters, —one enclosing the paragraph now in question; the other, those published calumnies of Messrs. ——, for which I yet hope to find redress in a court of justice.

"Of the facts, that I myself have been long and dangerously ill, and that my illness has been a well understood

thing among my brethren of the press, the best evidence is afforded by the innumerable paragraphs of personal and of literary abuse with which I have been latterly assailed. This matter, however, will remedy itself. At the very first blush of my new prosperity, the gentlemen who toadied me in the old, will recollect themselves and toady me again. You, who know me, will comprehend that I speak of these things only as having served, in a measure, to enlighten the gloom of unhappiness by a gentle and not unpleasant sentiment of mingled pity, merriment and contempt. That, as the inevitable consequence of so long an illness, I have been in want of money, it would be folly in me to deny —but that I have ever materially suffered from privation, beyond the extent of my capacity for suffering, is not altogether true. That I am 'without friends' is a gross calumny, which I am sure *you* never could have believed, and which a thousand noble-hearted men would have good right never to forgive me for permitting to pass unnoticed and undenied. Even in the city of New York I could have no difficulty in naming a hundred persons, to each of whom—when the hour for speaking had arrived—I could and would have applied for aid with unbounded confidence, and with absolutely *no* sense of humiliation. I do not think, my dear Willis, that there is any need of my saying more. I am getting better, and may add—if it be any comfort to my enemies—that I have little fear of getting worse. The truth is, I have a great deal to do; and I have made up my mind not to die till it is done.

Sincerely yours,

"December 30th, 1846. EDGAR A. POE."

This was written for effect. He had not been ill a great while, nor dangerously at all; there was no literary or personal abuse of him in the journals; and his friends in town had been applied to for money until their patience was nearly exhausted. His wife, however, was very sick, and in a few weeks she died. In a letter to a lady in Massachusetts, who, upon the appearance of the newspaper articles above quoted, had sent him money and expressions of sympathy, he wrote, under date of March 10, 1847:

"In answering your kind letter permit me in the very first place to absolve myself from a suspicion which, under the circumstances, you could scarcely have failed to entertain—a suspicion of discourtesy toward yourself, in not having more promptly replied to you. . .I could not help fearing that should you see my letter to Mr. Willis—in which a natural pride, which I feel you could not blame, impelled me to shrink from public charity, *even at the cost of truth, in denying those necessities which were but too real*—I could not help fearing that, should you see this letter, you would yourself feel pained at having caused me pain—at having been the means of giving further publicity to an unfounded report—at all events to the report of a wretchedness which I had thought it prudent (since the world regards wretchedness as a crime) so publicly to disavow. In a word, venturing to judge your noble nature by my own, I felt grieved lest my published denial might cause you to regret what you had done; and my first impulse was to write you, and assure you, even at the risk of doing so too warmly, of the sweet emotion, made up of respect and gratitude alone, with which my heart was filled to overflowing. While I was hesitating, however, in regard to the propriety of this step, I was overwhelmed by a sorrow so poignant as to deprive me for several weeks of all power of thought or action. Your letter, now lying before me, tells me that I had not been mistaken in your nature, and that I should not have hesitated to address you; but believe me, my dear Mrs. L——, that I am already ceasing to regard those difficulties or misfortunes which have led me to even this partial correspondence with yourself.

For nearly a year Mr. Poe was not often before the public, but he was as industrious, perhaps, as he had been at any time, and early in 1848 advertisement was made of his intention to deliver several lectures, with a view to obtain an amount of money sufficient to establish his so-long-contemplated monthly magazine. His first lecture—and only one at this period—was given at the Society Library, in New-York, on the ninth of February, and was upon the Cosmogony of the Universe; it was attended by

an eminently intellectual auditory, and the reading of it occupied about two hours and a half; it was what he afterwards published under the title of "Eureka, a Prose Poem."

To the composition of this work he brought his subtlest and highest capacities, in their most perfect development. Denying that the arcana of the universe can be explored by induction, but informing his imagination with the various results of science, he entered with unhesitating boldness, though with no guide but the divinest instinct,—that sense of beauty, in which our great Edwards recognises the flowering of all truth—into the sea of speculation, and there built up of according laws and their phenomena, as under the influence of a scientific inspiration, his theory of Nature. I will not attempt the difficult task of condensing his propositions; to be apprehended they must be studied in his own terse and simple language; but in this we have a summary of that which he regards as fundamental; "The law which we call *Gravity*," he says, "exists on account of matter having been radiated, at its origin, atomically, into a *limited* sphere of space, from one, individual, unconditional, irrelative and absolute Particle Proper, by the sole process in which it was possible to satisfy, at the same time, the two conditions, radiation and equable distribution throughout the sphere—that is to say, by a force varying in *direct* proportion with the squares of the distances between the radiated atoms, respectively, and the particular centre of radiation."

Poe was thoroughly persuaded that he had discovered the great secret; that the propositions of "Eureka" were true; and he was wont to talk of the subject with a sublime and electrical enthusiasm which they cannot have forgotten who were familiar

with him at the period of its publication. He felt that an author known solely by his adventures in the lighter literature, throwing down the gauntlet to professors of science, could not expect absolute fairness, and he had no hope but in discussions led by wisdom and candor. Meeting me, he said, "Have you read 'Eureka?'" I answered "Not yet: I have just glanced at the notice of it by Willis, who thinks it contains no more fact than fantasy, and I am sorry to see—sorry if it be true—suggests that it corresponds in tone with that gathering of sham and obsolete hypotheses addressed to fanciful tyros, the 'Vestiges of Creation'; and our good and really wise friend Bush, whom you will admit to be of all the professors, in temper one of the most habitually just, thinks that while you may have guessed very shrewdly, it would not be difficult to suggest many difficulties in the way of your doctrine." "It is by no means ingenuous," he replied, "to hint that there are such difficulties, and yet to leave them unsuggested. I challenge the investigation of every point in the book. I deny that there are any difficulties which I have not met and overthrown. Injustice is done me by the application of this word 'guess:' I have assumed *nothing* and proved *all*." In his preface he wrote: "To the few who love me and whom I love; to those who feel rather than to those who think; to the dreamers and those who put faith in dreams as in the only realities—I offer this book of truths, not in the character of Truth-Teller, but for the beauty that abounds in its truth: constituting it true. To these I present the composition as an Art-Product alone:—let us say as a Romance; or, if it be not urging too lofty a claim, as a Poem. What I here propound is true: therefore it cannot die: or if by any means it be now trodden

down so that it die, it will rise again to the life everlasting."

When I read "Eureka" I could not help but think it immeasurably superior as an illustration of genius to the "Vestiges of Creation"; and as I admired the poem, (except the miserable attempt at humor in what purports to be a letter found in a bottle floating on the *Mare tenebrarum*,) so I regretted its pantheism, which is not necessary to its main design. To some of the objections to his work he made this answer in a letter to Mr. C. F. Hoffman, then editor of the "Literary World:"

"*Dear Sir:*—In your paper of July 29, I find some comments on "Eureka," a late book of my own; and I know you too well to suppose, for a moment, that you will refuse me the privilege of a few words in reply. I feel, even, that I might safely claim, from Mr. Hoffman, the right, which every author has, of replying to his critic *tone for tone*—that is to say, of answering your correspondent, flippancy by flippancy and sneer by sneer—but, in the first place, I do not wish to disgrace the "World;" and, in the second, I feel that I never should be done sneering, in the present instance, were I once to begin. Lamartine blames Voltaire for the use which he made of (*ruse*) misrepresentation, in his attacks on the priesthood; but our young students of Theology do not seem to be aware that in defence, or what they fancy to be defence, of Christianity, there is anything wrong in such gentlemanly peccadillos as the deliberate perversion of an author's text—to say nothing of the minor *indecora* of reviewing a book without reading it and without having the faintest suspicion of what it is about.

"You will understand that it is merely the *misrepresentations* of the *critique* in question to which I claim the privilege of reply:—the mere *opinions* of the writer can be of no consequence to me—and I should imagine of very little to himself—that is to say if he knows himself, personally, as well as *I* have the honor of knowing him. The first misrepresentation is contained in this sentence:—'This letter is a keen burlesque on the Aristotelian or Baconian methods of ascertaining Truth, both of which the writer

ridicules and despises, and pours forth his rhapsodical ecstasies in a glorification of the third mode—the noble art of *guessing*.' What I *really* say is this:—That there is no absolute *certainty* either in the Aristotelian or Baconian process—that, for this reason, neither Philosophy is so profound as it fancies itself—and that neither has a right to sneer at that *seemingly* imaginative process called Intuition (by which the great Kepler attained his laws;) since 'Intuition,' after all, 'is but the conviction arising from those *in*ductions or *de*ductions of which the processes are so shadowy as to escape our consciousness, elude our reason or defy our capacity of expression.' The second misrepresentation runs thus:—'The developments of electricity and the formation of stars and suns, luminous and non-luminous, moons and planets, with their rings, &c., is deduced, very much according to the nebular theory of Laplace, from the principle propounded above.' Now the impression intended to be made here upon the reader's mind, by the 'Student of Theology,' is, evidently, that my theory may all be very well in its way, but that it is nothing but Laplace over again, with some modifications that he (the Student of Theology) cannot regard as at all important. I have only to say that no gentleman can accuse me of the disingenuousness here implied; inasmuch as, having proceeded with my theory up to that point at which Laplace's theory *meets* it, I then *give Laplace's theory in full* with the expression of my firm conviction of its absolute truth *at all points*. The *ground* covered by the great French astronomer compares with that covered by my theory, as a bubble compares with the ocean on which it floats; nor has he the slightest allusion to the 'principle propounded above,' the principle of Unity being the source of all things—the principle of Gravity being merely the Reaction of the Divine Act which irradiated all things from unity. In fact, *no* point of *my* theory has been even so much as alluded to by Laplace. I have not considered it necessary, here, to speak of the astronomical knowledge displayed in the 'stars *and* suns' of the Student of Theology, nor to hint that it would be better grammar to say that 'development and formation' *are*, than that development and formation *is*. The third misrepresentation lies in a foot-note, where the critic says:—'Further than this, Mr. Poe's claim that he can account for the existence of all organized beings—

man included—merely from those principles on which the origin and present appearance of suns and worlds are explained, must be set down as mere bald assertion, without a particle of evidence. In other words we should term it *arrant fudge*.' The perversion at this point is involved in a wilful misapplication of the word 'principles.' I say 'wilful;' because, at page 63, I am *particularly* careful to distinguish between the principles proper, Attraction and Repulsion, and those merely resultant *sub*-principles which control the universe in detail. To these sub-principles, swayed by the immediate spiritual influence of Deity, I leave, without examination, *all that* which the Student of Theology so roundly asserts I account for on the *principles* which account for the constitution of suns, &c.

"In the third column of his 'review' the critic says:—'He asserts that each soul is its own God—its own Creator.' What I *do* assert is, that 'each soul is, *in part*, its own God—its own Creator." Just below, the critic says:—'After all these contradictory propoundings concerning God we would remind him of what he lays down on page 28—'of this Godhead in itself he alone is not imbecile—he alone is not impious who propounds *nothing*. A man who thus conclusively convicts himself of imbecility and impiety needs no further refutation.' Now the sentence, *as I wrote it*, and as *I find it* printed on that very page which the critic refers to and which *must have been lying before him* while he quoted my words, runs thus:—'Of this Godhead, in *itself*, he alone is not imbecile, &c., who propounds nothing.' By the italics, as the critic well knew, I design to distinguish between the two possibilities—that of a knowledge of God through his works and that of a knowledge of Him in his *essential nature*. The Godhead, *in itself*, is distinguished from the Godhead observed *in its effects*. But our critic is zealous. Moreover, being a divine, he is honest—ingenuous. It is his *duty* to pervert my meaning by omitting my italics—just as, in the sentence previously quoted, it was his Christian duty to falsify my argument by leaving out the two words, 'in part,' upon which turns the whole force—indeed the whole intelligibility of my proposition.

"Were these 'misrepresentations' (*is* that the name for them?) made for any less serious a purpose than that of branding my book as 'impious' and myself as a 'pantheist,' a 'polytheist,' a Pagan, or a God knows what

(and indeed I care very little so it be not a 'Student of Theology,') I would have permitted their dishonesty to pass unnoticed, through pure contempt for the boyishness—for the *turn-down-shirt-collar-ness* of their tone:—but, as it is, you will pardon me, Mr. Editor, that I have been compelled to expose a 'critic' who, courageously preserving his own *anonymosity*, takes advantage of my absence from the city to misrepresent, and thus villify me, *by name*.

"*Fordham*, September 20, 1848." "EDGAR A. POE."

From this time Poe did not write much; he had quarrelled with the conductors of the chief magazines for which he had previously written, and they no longer sought his assistance. In a letter to a friend, he laments the improbabilities of an income from literary labor, saying:

"I have represented —— to you as merely an ambitious simpleton, anxious to get into society with the reputation of conducting a magazine which somebody behind the curtain always prevents him from quite damning with his stupidity; he is a knave and a beast. I cannot write any more for the Milliner's Book, where T—n prints his feeble and *very* quietly made dilutions of other people's reviews; and you know that —— can afford to pay but little, though I am glad to do anything for a good fellow like ——. In this emergency I sell articles to the vulgar and trashy —— ——, for $5 a piece. I enclose my last, cut out, lest you should see by my sending the paper in what company I am forced to appear."

His name was now frequently associated with that of one of the most brilliant women of New England, and it was publicly announced that they were to be married. He had first seen her on his way from Boston, when he visited that city to deliver a poem before the Lyceum there. Restless, near the midnight, he wandered from his hotel near where she lived, until he saw her walking in a garden. He related the incident afterward in one

of his most exquisite poems, worthy of himself, of her, and of the most exalted passion.

"I saw thee once—once only—years ago;
I must not say *how* many—but *not* many.
It was a July midnight; and from out
A full-orbed moon, that, like thine own soul, soaring,
Sought a precipitate pathway up through heaven,
There fell a silvery-silken veil of light,
With quietude, and sultriness, and slumber,
Upon the upturn'd faces of a thousand
Roses that grew in an enchanted garden,
Where no wind dared to stir, unless on tiptoe—
Fell on the upturn'd faces of these roses
That gave out, in return for the love-light,
Their odorous souls in an ecstatic death—
Fell on the upturn'd faces of these roses
That smiled and died in this parterre, enchanted
By thee, and by the poetry of thy presence.
"Clad all in white, upon a violet bank
I saw thee half reclining; while the moon
Fell on the upturn'd faces of the roses,
And on thine own, upturn'd—alas, in sorrow!
"Was it not Fate, that, on this July midnight—
Was it not Fate, (whose name is also Sorrow,)
That bade me pause before that garden-gate,
To breathe the incense of these slumbering roses?
No footstep stirred; the hated world all slept,
Save only thee and me. (Oh, Heaven!—oh, God!
How my heart beats in coupling those two words!)
Save only thee and me. I paused—I looked—
And in an instant all things disappeared.
(Ah, bear in mind this garden was enchanted!)
The pearly lustre of the moon went out;
The mossy banks and the meandering paths,
The happy flowers and the repining trees,
Were seen no more: the very roses' odors
Died in the arms of the adoring airs.
All—all expired save thee—save less than thou:
Save only the divine light in thine eyes—
Save but the soul in thine uplifted eyes.
I saw but them—they were the world to me.
I saw but them—saw only them for hours—

Saw only them until the moon went down.
What wild heart-histories seemed to lie enwritten
Upon those crystalline, celestial spheres!
How dark a wo! yet how sublime a hope!
How silently serene a sea of pride!
How daring an ambition! yet how deep—
How fathomless a capacity for love!
"But now, at length, dear Dian sank from sight
Into a western couch of thunder-cloud;
And thou, a ghost, amid the entombing trees
Didst glide away. *Only thine eyes remained.*
They *would not* go—they never yet have gone.
Lighting my lonely pathway home that night,
They have not left me (as my hopes have) since.
They follow me—they lead me through the years.
They are my ministers—yet I their slave.
Their office is to illumine and enkindle—
My duty, *to be saved* by their bright light,
And purified in their electric fire,
And sanctified in their elysian fire.
They fill my soul with Beauty (which is Hope,)
And are far up in Heaven—the stars I kneel to
In the sad, silent watches of my night;
While even in the meridian glare of day
I see them still—two sweetly scintillant
Venuses, unextinguished by the sun!"

They were not married, and the breaking of the engagement affords a striking illustration of his character. He said to an acquaintance in New York, who congratulated with him upon the prospect of his union with a person of so much genius and so many virtues—"It is a mistake: I am not going to be married." "Why, Mr. Poe, I understand that the banns have been published." "I cannot help what you have heard, my dear Madam: but mark me, I shall not marry her." He left town the same evening, and the next day was reeling through the streets of the city which was the lady's home, and in the evening—that should have been

the evening before the bridal—in his drunkenness he committed at her house such outrages as made necessary a summons of the police. Here was no insanity leading to indulgence: he went from New York with a determination thus to induce an ending of the engagement; and he succeeded.

Sometime in August, 1849, Mr. Poe left New-York for Virginia. In Philadelphia he encountered persons who had been his associates in dissipations while he lived there, and for several days he abandoned himself entirely to the control of his worst appetites. When his money was all spent, and the disorder of his dress evinced the extremity of his recent intoxication, he asked in charity means for the prosecution of his journey to Richmond. There, after a few days, he joined a temperance society, and his conduct showed the earnestness of his determination to reform his life. He delivered in some of the principal towns of Virginia two lectures, which were well attended, and renewing his acquaintance with a lady whom he had known in his youth, he was engaged to marry her, and wrote to his friends that he should pass the remainder of his days among the scenes endeared by all his pleasantest recollections of youth.

On Thursday, the fourth of October, he set out for New-York, to fulfil a literary engagemnt, and to prepare for his marriage. Arriving in Baltimore he gave his trunk to a porter, with directions to convey it to the cars which were to leave in an hour or two for Philadelphia, and went into a tavern to obtain some refreshment. Here he met acquaintances who invited him to drink; all his resolutions and duties were soon forgotten; in a few hours he was in such a state as is commonly induced only by long-continued intoxication; after a night of insanity

and exposure, he was carried to a hospital; and there, on the evening of Sunday, the seventh of October, 1849, he died, at the age of thirty-eight years.

It is a melancholy history. No author of as much genius had ever in this country as much unhappiness; but Poe's unhappiness was in an unusual degree the result of infirmities of nature, or of voluntary faults in conduct. A writer who evidently knew him well, and who comes before us in the "Southern Literary Messenger" as his defender, is "compelled to admit that the blemishes in his life were effects of character rather than of circumstances."* How this character might have been modified by a judicious education of all his faculties I leave for the decision of others, but it will be evident to those who read this biography that the unchecked freedom of his earlier years was as unwise as its results were unfortunate.

It is contended that the higher intelligences, in the scrutiny to which they appeal, are not to be judged by the common laws; but I apprehend that this doctrine, as it is likely to be understood, is entirely wrong. All men are amenable to the same principles, to the extent of the parallelism of these principles with their experience; and the line of duty becomes only more severe as it extends into the clearer atmosphere of truth and beauty which is the life of genius. *De mortuis nil nisi bonum* is a common and an honorable sentiment, but its proper application would lead to the suppression of the histories of half of the most conspicuous of mankind; in this case it is impossible on account of the notoriety of Mr. Poe's faults; and it would be unjust to the living against whom his hands were always

* *Southern Literary Messenger*, March, 1850, p. 179.

raised and who had no resort but in his outlawry from their sympathies. Moreover, his career is full of instruction and warning, and it has always been made a portion of the penalty of wrong that its anatomy should be displayed for the common study and advantage.

The character of Mr. Poe's genius has been so recently and so admirably discussed by Mr. Lowell, with whose opinions on the subject I for the most part agree, that I shall say but little of it here, having already extended this notice beyond the limits at first designed. There is a singular harmony between his personal and his literary qualities. St. Pierre, who seemed to be without any nobility in his own nature, in his writings appeared to be moved only by the finest and highest impulses. Poe exhibits scarcely any virtue in either his life or his writings. Probably there is not another instance in the literature of our language in which so much has been accomplished without a recognition or a manifestation of conscience. Seated behind the intelligence, and directing it, according to its capacities, Conscience is the parent of whatever is absolutely and unquestionably beautiful in art as well as in conduct. It touches the creations of the mind and they have life; without it they have never, in the range of its just action, the truth and naturalness which are approved by universal taste or in enduring reputation. In Poe's works there is constantly displayed the most touching melancholy, the most extreme and terrible despair, but never reverence or remorse.

His genius was peculiar, and not, as he himself thought, various. He remarks in one of his letters:

"There is one particular in which I have had wrong done me, and it may not be indecorous in me to call your

attention to it. The last selection of my tales was made from about seventy by one of our great little cliquists and claquers, Wiley and Putnam's reader, Duyckinck. He has what he thinks a taste for ratiocination, and has accordingly made up the book mostly of analytic stories. But this is not *representing* my mind in its various phases—it is not giving me fair play. In writing these tales one by one, at long intervals, I have kept the book unity always in mind—that is, each has been composed with reference to its effect as part of a whole. In this view, one of my chief aims has been the widest diversity of subject, thought, and especially *tone* and manner of handling. Were *all* my tales now before me in a large volume, and as the composition of another, the merit which would principally arrest my attention would be their wide *diversity and variety*. You will be surprised to hear me say that, (omitting one or two of my first efforts,) I do not consider any one of my stories *better* than another. There is a vast variety of kinds, and, in degree of value, these kinds vary—but each tale is equally good *of its kind*. The loftiest kind is that of the highest imagination—and for this reason only 'Ligeia' may be called my best tale."

But it seems to me that this selection of his tales was altogether judicious. Had it been submitted to me I might indeed have changed it in one or two instances, but I should not have replaced any tale by one of a different tone. One of the qualities upon which Poe prided himself was his humor, and he has left us a large number of compositions in this department, but except a few paragraphs in his "Marginalia," scarcely anything which it would not have been injurious to his reputation to republish. His realm was on the shadowy confines of human experience, among the abodes of crime, gloom, and horror, and there he delighted to surround himself with images of beauty and of terror, to raise his solemn palaces and towers and spires in a night upon which should rise no sun. His minuteness of detail, refinement of reasoning, and

propriety and power of language—the perfect keeping (to borrow a phrase from another domain of art) and apparent good faith with which he managed the evocation and exhibition of his strange and spectral and revolting creations—gave him an astonishing mastery over his readers, so that his books were closed as one would lay aside the nightmare or the spells of opium. The analytical subtlety evinced in his works has frequently been overestimated, as I have before observed, because it has not been sufficiently considered that his mysteries were composed with the express design of being dissolved. When Poe attempted the illustration of the profounder operations of the mind, as displayed in written reason or in real action, he frequently failed entirely.

In poetry, as in prose, he was eminently successful in the metaphysical treatment of the passions. His poems are constructed with wonderful ingenuity, and finished with consummate art. They display a sombre and weird imagination, and a taste almost faultless in the apprehension of that sort of beauty which was most agreeable to his temper. But they evince little genuine feeling, and less of that spontaneous ecstasy which gives its freedom, smoothness and naturalness to immortal verse. His own account of the composition of "The Raven," discloses his methods—the absence of all impluse, and the absolute control of calculation and mechanism. That curious analysis of the processes by which he wrought would be incredible if from another hand.

He was not remarkably original in invention. Indeed some of his plagiarisms are scarcely paralleled for their audacity in all literary history: For instance, in his tale of "The Pit and the Pendulum,"

the complicate machinery upon which the interest depends is borrowed from a story entitled "Vivenzio, or Italian Vengeance," by the author of "The First and Last Dinner," in "Blackwood's Magazine." And I remember having been shown by Mr. Longfellow, several years ago, a series of papers which constitute a demonstration that Mr. Poe was indebted to him for the idea of "The Haunted Palace," one of the most admirable of his poems, which he so pertinaciously asserted had been used by Mr. Longfellow in the production of his "Beleaguered City." Mr. Longfellow's poem was written two or three years before the first publication of that by Poe, and it was during a portion of this time in Poe's possession; but it was not printed, I believe, until a few weeks after the appearance of "The Haunted Palace." "It would be absurd," as Poe himself said many times, "to believe the similarity of these pieces entirely accidental." This was the first cause of all that malignant criticism which for so many years he carried on against Mr. Longfellow. In his "Marginalia" he borrowed largely, especially from Coleridge, and I have omitted in the republication of these papers, numerous paragraphs which were rather compiled than borrowed from one of the profoundest and wisest of our own scholars.*

* I have neither space, time, nor inclination for a continuation of this subject, and I add but one other instance, in the words of the Philadelphia "Saturday Evening Post," —published while Mr. Poe was living.

"One of the most remarkable plagiarisms was perpetrated by Mr. Poe, late of the Broadway Journal, whose harshness as a critic and assumption of peculiar originality, makes the fault, in his case, more glaring. This gentleman, a few years ago, in Philadelphia, published a work on Conchology as original, when in reality it was a copy, nearly verbatim, of 'The Text-Book of Conchology, by Capt. Thomas Brown,' printed in Glasgow in 1833, a duplicate of which we have in our library. Mr. Poe actually took out a copyright for the American edition

In criticism, as Mr. Lowell justly remarks, Mr. Poe had "a scientific precision and coherence of logic"; he had remarkable dexterity in the dissection of sentences; but he rarely ascended from the particular to the general, from subjects to principles: he was familiar with the microscope but never looked through the telescope. His criticisms are of value to the degree in which they are demonstrative, but his unsupported assertions and opinions were so apt to be influenced by friendship or enmity, by the desire to please or the fear to offend, or by his constant ambition to surprise, or produce a sensation, that they should be received in all cases with distrust of their fairness. A volume might be filled with literary judgments by him as antagonistical and inconsistent as the sharpest antitheses. For example, when Mr. Laughton Osborn's romance, "The Confessions of a Poet," came out, he reviewed it in "The Southern Literary Messenger," saying:

"There is nothing of the *vates* about the author. He is no poet—and most positively he is no prophet. He avers upon his word of honor that in commencing this work he loads a pistol and places it upon the table. He further states that, upon coming to a conclusion. it is his intention to blow out what he supposes to be his brains. Now this is excellent. But, even with so rapid a writer as the poet must undoubtedly be, there would be some little difficulty in completing the book under thirty days or thereabouts. The best of powder is apt to sustain injury by lying so long 'in the load.' We sincerely hope the gentleman took the precaution to examine his priming before attempting the rash act. A flash in the pan—and in such a case—were a

of Capt. Brown's work, and, omitting all mention of the English original, pretended, in the preface, to have been under great obligations to several scientific gentlemen of this city. It is but justice to add, that in the second edition of this book, published lately in Philadelphia, the name of Mr. Poe is withdrawn from the title-page, and his initials only affixed to the preface. But the affair is one of the most curious on record."

thing to be lamented. Indeed there would be no answering for the consequences. We might even have a second series of the 'Confessions.'"—*Southern Literary Messenger*, i. 459.

This review was attacked, particularly in the Richmond "Compiler," and Mr. Poe felt himself called upon to vindicate it to the proprietor of the magazine, to whom he wrote:

"There is no necessity of giving the 'Compiler' a reply. The book is *silly enough of itself*, without the aid of any controversy concerning it. I have read it, from beginning to end, and was very much amused at it. My opinion of it is pretty nearly the opinion of the press at large. I have heard no person offer one serious word in its defence."—*Letter to T. W. White.*

Afterwards Mr. Poe became personally acquainted with the author and he then wrote, in his account of "The Literati of New-York City," as follows:

"The Confessions of a Poet made much noise in the literary world, and no little curiosity was excited in regard to its author, who was generally supposed to be John Neal.....The "Confessions," however, far surpassed any production of Mr. Neal's.....*He* has done nothing which, as a whole, is *even respectable*, and "The Confessions" are quite remarkable for their artistic unity and perfection. But on higher regards they are to be commended. *I do not think, indeed, that a better book of its kind has been written in America*.....Its scenes of passion are intensely wrought, its incidents are striking and original, its sentiments audacious and suggestive at least, if not at all times tenable. In a word, it is that rare thing, a fiction of *power* without rudeness."

I will adduce another example of the same kind. In a notice of the "Democratic Review," for September, 1845, Mr. Poe remarks of Mr. William A. Jones's paper on American Humor:

"There is only one really bad article in the number, and that is insufferable: nor do we think it the less a nuisance

because it inflicts upon ourselves individually a passage of maudlin compliment about our being a most 'ingenious critic' and 'prose poet,' with some other things of a similar kind. We thank for his good word no man who gives palpable evidence, in other cases than our own, of his *incapacity* to distinguish the false from the true—the right from the wrong. If we *are* an ingenious critic, or a prose poet, it is not because Mr. William Jones says so. The truth is that this essay on 'American Humor' is contemptible both in a moral and literary sense—is the composition of an *imitator and a quack*—and disgraces the magazine in which it makes its appearance."—*Broadway Journal*, Vol. ii. No. 11.

In the following week he reconsidered this matter, opening his paper for a defence of Mr. Jones; but at the close of it said—

"If we have done Mr. Jones injustice, we beg his pardon: but we do not think we have."

Yet in a subsequent article in "Graham's Magazine," on "Critics and Criticism," he says of Mr. Jones—referring only to writings of his that had been for years before the public when he printed the above paragraphs:

"Our most analytic, *if not altogether our best critic*, (Mr. Whiggle, perhaps, excepted,) is Mr. *William A. Jones*, author of 'The Analyst.' How he would write elaborate criticisms I cannot say; but his summary judgments of authors are, in general, discriminative and profound. In fact, his papers on *Emerson* and on *Macaulay*, published in 'Arcturus,' and better than merely 'profound,' if we take the word in its now desecrated sense; for they are at once pointed, lucid, and just:—as summaries, leaving nothing to be desired."

I will not continue the display of these inconsistencies. As I have already intimated, a volume might be filled with passages to show that his criticisms were guided by no sense of duty, and that his opinions were so variable and so liable to be

influenced by unworthy considerations as to be really of no value whatever.

It was among his remarkable habits that he preserved with scrupulous care everything that was published respecting himself or his works, and everything that was written to him in letters that could be used in any way for the establishment or extension of his reputation. In Philadelphia, in 1843, he prepared with his own hands a sketch of his life for a paper called "The Museum." Many parts of it are untrue, but I refer to it for the purpose of quoting a characteristic instance of perversion in the reproduction of compliments:

"Of 'William Wilson,' Mr. Washington Irving says: 'It is managed in a highly picturesque style, and its singular and mysterious interest is ably sustained throughout. In point of mere style, it is, perhaps, even superior to 'The House of Usher.' It is simpler. In the latter composition, he seems to have been distrustful of his effects, or, rather, too solicitous of bringing them forth fully to the eye, and thus, perhaps, has laid on too much coloring. He has erred, however, on the safe side, that of exuberance, and the evil might easily be remedied, by relieving the style of some of its epithets:' [since done.] 'There would be no fear of injuring the graphic effect, *which is powerful.*' The italics are Mr. Irving's own."

Now Mr. Irving had said in a private letter that he thought the "House of Usher" was clever, and that "a volume of similar stories would be well received by the public." Poe sent him a magazine containing "William Wilson," asking his opinion of it, and Mr. Irving, expressly declining to *publish* a word upon the subject, remarked in the same manner, that "the singular and mysterious interest is well sustained," and that in point of style the tale was "much better" than the "House of Usher," which, he says, "might be improved by relieving

the style from some of the epithets: there is no danger of destroying the graphic effect, which is powerful." There is not a word in *italics* in Mr. Irving's letter, the meaning of which is quite changed by Mr. Poe's alterations. And this letter was not only published in the face of an implied prohibition, but made to seem like a deliberately expressed judgment in a public reviewal. In the same way Mr. Poe published the following sentence as an extract from a letter by Miss Barrett:

"Our great poet, Mr. Browning, author of Paracelsus, etc., is *enthusiastic in his admiration* of the rhythm."

But on turning to Miss Barrett's letter I find that she wrote:

"Our great poet, Mr. Browning, the author of 'Paracelsus,' and 'Bells and Pomegranates,' was struck much by the rhythm of that poem."

The piece alluded to is "The Raven."

It is not true, as has been frequently alleged since Mr. Poe's death, that his writings were above the popular taste, and therefore without a suitable market in this country. His poems were worth as much to magazines as those of Bryant or Longfellow, (though none of the publishers paid him half as large a price for them,) and his tales were as popular as those of Willis, who has been commonly regarded as the best magazinist of his time. He ceased to write for "The Lady's Book" in consequence of a quarrel induced by Mr. Godey's justifiable refusal to print in that miscellany his "Reply to Dr. English," and though in the poor fustian published under the signature of "George R. Graham," in answer to some remarks upon Poe's character in "The Tribune," that individual is made to assume a passionate friendship for the deceased

author that would have become a Pythias, it is known that the personal ill-will on both sides was such that for some four or five years *not a line by Poe was purchased for "Graham's Magazine."* To quote again the "Defence of Mr. Poe" in the "Southern Literary Messenger:"

> "His changeable humors, his irregularities, his caprices, his total disregard of everything and body, save the fancy in his head, prevented him from doing well in the world. The evils and sufferings that poverty brought upon him, soured his nature, and deprived him of faith in human beings. This was evident to the eye—he believed in nobody, and cared for nobody. Such a mental condition of course drove away all those who would otherwise have stood by him in his hours of trial. He became, and was, an Ishmaelite."

After having, in no ungenerous spirit, presented the chief facts in Mr. Poe's history, not designedly exaggerating his genius, which none held in higher admiration, not bringing into bolder relief than was just and necessary his infirmities, I am glad to offer a portraiture of some of his social qualities, equally beautiful, and—so changeable and inconsistent was the man—as far as it goes, truthful. Speaking of him one day soon after his death, with the late Mrs. Osgood, the beauty of whose character had made upon Poe's mind that impression which it never failed to produce upon minds capable of the apprehension of the finest traits in human nature, she said she did not doubt that my view of Mr. Poe, which she knew indeed to be the common view, was perfectly just, as it regarded him in his relations with men; but to women he was different, and she would write for me some recollections of him to be placed beside my harsher judgments in any notice of his life that the acceptance of the appointment to be his literary executor might render it necessary

for me to give to the world. She was an invalid—dying of that consumption by which in a few weeks she was removed to heaven, and calling for pillows to support her while she wrote, she drew this sketch:

"You ask me, my friend, to write for you my reminiscences of Edgar Poe. For you, who knew and understood my affectionate interest in him, and my frank asknowledgment of that interest to all who had a claim upon my confidence, for you, I will willingly do so. I think no one could know him—no one *has* known him personally—certainly no woman—without feeling the same interest. I can sincerely say, that although I have frequently *heard* of aberrations on his part from 'the straight and narrow path,' I have never *seen* him otherwise than gentle, generous, well-bred, and fastidiously refined. To a sensitive and delicately-nurtured woman, there was a peculiar and irresistible charm in the chivalric, graceful, and almost tender reverence with which he invariably approached all women who won his respect. It was this which first commanded and always retained my regard for him.

"I have been told that when his sorrows and pecuniary embarrassments had driven him to the use of stimulants, which a less delicate organization might have borne without injury, he was in the habit of speaking disrespectfully of the ladies of his acquaintance. It is difficult for me to believe this; for to *me*, to whom he came during the year of our acquaintance for counsel and kindness in all his many anxieties and griefs, he never spoke irreverently of any woman save one, and then only in *my* defence, and though I rebuked him for his momentary forgetfulness of the respect due to himself and to me, I could not but forgive the offence for the sake of the generous impulse which prompted it. Yet even were these sad rumors true of him, the wise and well-informed knew how to regard, as they would the impetuous anger of a spoiled infant, balked of its capricious will, the equally harmless and unmeaning phrenzy of that stray child of Poetry and Passion. For the few unwomanly and slander-loving gossips who have injured *him* and *themselves* only by *repeating* his ravings, when in such moods they have accepted his society, I have only to vouchsafe my wonder and my pity. They cannot surely

harm the true and pure, who, reverencing his genius and pitying his misfortunes and his errors, endeavored, by their timely kindness and sympathy, to soothe his sad career.

"It was in his own simple yet poetical home that, to me the character of Edgar Poe appeared in its most beautiful light. Playful, affectionate, witty, alternately docile and wayward as a petted child—for his young, gentle and idolized wife, and for all who came, he had even in the midst of his most harassing literary duties, a kind word, a pleasant smile, a graceful and courteous attention. At his desk beneath the romantic picture of his loved and lost Lenore, he would sit, hour after hour, patient, assiduous and uncomplaining, tracing, in an exquisitely clear chirography and with almost superhuman swiftness, the lightning thoughts —the 'rare and radiant' fancies as they flashed through his wonderful and ever wakeful brain. I recollect, one morning, towards the close of his residence in this city, when he seemed unusually gay and light-hearted. Virginia, his sweet wife, had written me a pressing invitation to come to them; and I, who never could resist her affectionate summons, and who enjoyed his society far more in his own home than elsewhere, hastened to Amity-street. I found him just completing his series of papers entitled 'The Literati of New-York.' 'See,' said he, displaying, in laughing triumph, several little rolls of narrow paper, (he always wrote thus for the press,) 'I am going to show you, by the difference of length in these, the different degrees of estimation in which I hold all you literary people. In each of these, one of you is rolled up and fully discussed. Come, Virginia, help me!' And one by one they unfolded them. At last they came to one which seemed interminable. Virginia laughingly ran to one corner of the room with one end, and her husband to the opposite with the other. 'And whose lengthened sweetness long drawn out is that?' said I. 'Here her!' he cried, 'just as if her little vain heart didn't tell her it's herself!'

"My first meeting with the poet was at the Astor House. A few days previous, Mr. Willis had handed me, at the *table d'hote*, that strange and thrilling poem entitled 'The Raven,' saying that the author wanted my opinion of it. Its effect upon me was so singular, so like that of 'weird,' unearthly music,' that it was with a feeling almost of dread, I heard he desired an introduction. Yet I could not refuse

without seeming ungrateful, because I had just heard of his enthusiastic and partial eulogy of my writings, in his lecture on American Literature. I shall never forget the morning when I was summoned to the drawing-room by Mr. Willis to receive him. With his proud and beautiful head erect, his dark eyes flashing with the elective light of feeling and of thought, a peculiar, an inimitable blending of sweetness and hauteur in his expression and manner, he greeted me, calmly, gravely, almost coldly; yet with so marked an earnestness that I could not help being deeply impressed by it. From that moment until his death we were friends; although we met only during the first year of our acquaintance. And in his last words, ere reason had forever left her imperial throne in that overtasked brain, I have a touching memento of his undying faith and friendship.

"During that year, while traveling for my health, I maintained a correspondence with Mr. Poe, in accordance with the earnest entreaties of his wife, who imagined that my influence over him had a restraining and beneficial effect. It *had*, as far as this—that having solemnly promised me to give up the use of stimulants, he so firmly respected his promise and me, as never once, during our whole acquaintance, to appear in my presence when in the slightest degree affected by them. Of the charming love and confidence that existed between his wife and himself, always delightfully apparent to me, in spite of the many little poetical episodes, in which the impassioned romance of his temperament impelled him to indulge; of this I cannot speak too earnestly—too warmly. I believe she was the only woman whom he ever truly loved; and this is evidenced by the exquisite pathos of the little poem lately written, called Annabel Lee, of which she was the subject, and which is by far the most natural, simple, tender and touchingly beautiful of all his songs. I have heard it said that it was intended to illustrate a late love affair of the author; but they who believe this, have in their dullness, evidently misunderstood or missed the beautiful meaning latent in the most lovely of all its verses—where he says,

> "A wind blew out of a cloud, chilling
> My beautiful Annabel Lee,
> So that her *high-born kinsmen* came,
> And bore her away from me."

"There seems a strange and almost profane disregard of the sacred purity and spiritual tenderness of this delicious ballad, in thus overlooking the allusion to the *kindred angels* and the Heavenly *Father* of the lost and loved and unforgotten wife.

"But it was in his conversations and his letters, far more than in his published poetry and prose writings, that the genius of Poe was most gloriously revealed. His letters were divinely beautiful, and for hours I have listened to him, entranced by strains of such pure and almost celestial eloquence as I have never read or heard elsewhere. Alas! in the thrilling words of Stoddard,

> "He might have soared in the morning light,
> But he built his nest with the birds of night!
> But he lies in dust, and the stone is rolled
> Over the sepulchre dim and cold;
> He has cancelled all he has done or said,
> And gone to the dear and holy dead.
> Let us forget the path he trod,
> And leave him now, to his Maker, God."

The influence of Mr. Poe's aims and vicissitudes upon his literature, was more conspicuous in his later than in his earlier writings. Nearly all that he wrote in the last two or three years—including much of his best poetry,—was in some sense biographical; in draperies of his imagination, those who take the trouble to trace his steps, will perceive, but slightly concealed, the figure of himself. The lineaments here disclosed, I think, are not different from those displayed in this biography, which is but a filling up of the picture. Thus far the few criticisms of his life or works that I have ventured have been suggested by the immediate examination of the points to which they referred. I add but a few words, of more general description.

In person he was below the middle height, slenderly but compactly formed, and in his better moments he had in an eminent degree that air of gentlemanliness which men of a lower order seldom succeed in acquiring.

His conversation was at times almost supramortal in its eloquence. His voice was modulated with astonishing skill, and his large and variably expressive eyes looked repose or shot fiery tumult into theirs who listened, while his own face glowed, or was changeless in pallor, as his imagination quickened his blood or drew it back frozen to his heart. His imagery was from the worlds which no mortals can see but with the vision of genius. Suddenly starting from a proposition, exactly and sharply defined, in terms of utmost simplicity and clearness, he rejected the forms of customary logic, and by a crystalline process of accretion, built up his ocular demonstrations in forms of gloomiest and ghastliest grandeur, or in those of the most airy and delicious beauty—so minutely and distinctly, yet so rapidly, that the attention which was yielded to him was chained till it stood among his wonderful creatures—till he himself dissolved the spell, and brought his hearers back to common and base existence, by vulgar fancies or exhibitions of the ignoblest passion.

He was at all times a dreamer—dwelling in ideal realms—in heaven or hell—peopled with the creatures and the accidents of his brain. He walked the streets, in madness or melancholy, with lips moving in indistinct curses, or with eyes upturned in passionate prayer, (never for himself, for he felt, or professed to feel, that he was already damned, but) for their happiness who at the moment were objects of his idolatry;—or, with his glances introverted to a heart gnawed with anguish, and with a face shrouded in gloom, he would brave the wildest storms; and all night, with drenched garments and arms beating the winds and rains, would speak as if to spirits that at such times only could

be evoked by him from the Aidenn, close by whose portals his disturbed soul sought to forget the ills to which his constitution subjected him—close by the Aidenn where were those he loved—the Aidenn which he might never see, but in fitful glimpses, as its gates opened to receive the less fiery and more happy natures whose destiny to sin did not involve the doom of death.

He seemed, except when some fitful pursuit subjugated his will and engrossed his faculties, always to bear the memory of some controlling sorrow. The remarkable poem of "The Raven" was probably much more nearly than has been supposed, even by those who were very intimate with him, a reflection and an echo of his own history. *He* was that bird's

> "——unhappy master whom unmerciful Disaster
> Followed fast and followed faster till his songs one burden bore—
> Till the dirges of his Hope that melancholy burden bore
> Of 'Never—never more.'"

Every genuine author, in a greater or less degree, leaves in his works, whatever their design, traces of his personal character: elements of his immortal being, in which the individual survives the person. While we read the pages of the "Fall of the House of Usher," or of "Mesmeric Revelations," we see in the solemn and stately gloom which invests one, and in the subtle metaphysical analysis of both, indications of the idiosyncrasies—of what was most remarkable and peculiar—in the author's intellectual nature. But we see here only the better phases of his nature, only the symbols of his juster action, for his harsh experience had deprived him of all faith, in man or woman. He had made up his mind upon the numberless complexities of the social world, and the

whole system with him was an imposture. This conviction gave a direction to his shrewd and naturally unamiable character. Still, though he regarded society as composed altogether of villains, the sharpness of his intellect was not of that kind which enabled him to cope with villainy, while it continually caused him by overshots to fail of the success of honesty. He was in many respects like Francis Vivian, in Bulwer's novel of "The Caxtons." Passion, in him, comprehended many of the worst emotions which militate against human happiness. You could not contradict him, but you raised quick choler; you could not speak of wealth, but his cheek paled with gnawing envy. The astonishing natural advantages of this poor boy—his beauty, his readiness, the daring spirit that breathed around him like a fiery atmosphere—had raised his constitutional self-confidence into an arrogance that turned his very claims to admiration into prejudices against him. Irascible, envious—bad enough, but not the worst, for these salient angles were all varnished over with a cold repellent cynicism, his passions vented themselves in sneers. There seemed to him no moral susceptibility; and, what was more remarkable in a proud nature, little or nothing of the true point of honor. He had, to a morbid excess, that desire to rise which is vulgarly called ambition, but no wish for the esteem or the love of his species; only the hard wish to succeed—not shine, not serve—succeed, that he might have the right to despise a world which galled his self-conceit.

Wogel inv sc.

THE UNPARALLELED ADVENTURE

OF ONE

HANS PFAALL

With a heart of furious fancies,
Whereof I am commander,
With a burning spear *and a horse of air*,
To the wilderness I wander.
Tom O'Bedlam's Song.

BY late accounts from Rotterdam, that city seems to be in a high state of philosphical excitement. Indeed, phenomena have there occurred of a nature so completely unexpected—so entirely novel—so utterly at variance with preconceived opinions—as to leave no doubt on my mind that long ere this all Europe is in an uproar, all physics in a ferment, all reason and astronomy together by the ears.

It appears that on the ——— day of ———, (I am not positive about the date,) a vast crowd of people, for purposes not specifically mentioned, were assembled in the great square of the Exchange in the well-conditioned city of Rotterdam. The day was warm—unusually so for the season—there was hardly a breath of air stirring; and the multitude were in no bad humor at being now and then besprinkled with friendly showers of momentary duration, that fell from large white masses of cloud profusely distributed about the blue vault of the firmament. Nevertheless, about noon, a slight but remarkable agitation became apparent in the assembly; the clattering of ten thousand tongues

succeeded; and, in an instant afterwards, ten thousand faces were upturned towards the heavens, ten thousand pipes descended simultaneously from the corners of ten thousand mouths, and a shout, which could be compared to nothing but the roaring of Niagara, resounded long, loudly and furiously, through all the city and through all the environs of Rotterdam.

The origin of this hubbub soon became sufficiently evident. From behind the huge bulk of one of those sharply defined masses of cloud already mentioned, was seen slowly to emerge into an open area of blue space, a queer, heterogeneous, but apparently solid substance, so oddly shaped, so whimsically put together, as not to be in any manner comprehended, and never to be sufficiently admired, by the host of sturdy burghers who stood open-mouthed below. What could it be? In the name of all the devils in Rotterdam, what could it possibly portend? No one knew; no one could imagine; no one—not even the burgomaster Mynheer Superbus Von Underduk —had the slightest clew by which to unravel the mystery; so, as nothing more reasonable could be done, every one to a man replaced his pipe carefully in the corner of his mouth, and maintaining an eye steadily upon the phenomenon, puffed, paused, waddled about, and grunted significantly—then waddled back, grunted, paused, and finally—puffed again.

In the meantime, however, lower and still lower towards the goodly city, came the object of so much curiosity, and the cause of so much smoke. In a very few minutes it arrived near enough to be accurately discerned. It appeared to be—yes! it *was* undoubtedly a species of balloon; but surely no *such* balloon had ever been seen in Rotterdam before.

For who, let me ask, ever heard of a balloon manufactured entirely of dirty newspapers? No man in Holland certainly; yet here, under the very noses of the people, or rather at some distance *above* their noses, was the identical thing in question, and composed, I have it on the best authority, of the precise material which no one had ever before known to be used for a similar purpose.—It was an egregious insult to the good sense of the burghers of Rotterdam. As to the shape of the phenomenon, it was even still more reprehensible. Being little or nothing better than a huge fool's-cap turned upside down. And this similitude was regarded as by no means lessened, when upon nearer inspection, the crowd saw a large tassel depending from its apex, and, around the upper rim or base of the cone, a circle of little instruments, resembling sheep-bells, which kept up a continual tinkling to the tune of Betty Martin. But still worse.—Suspended by blue ribbons to the end of this fantastic machine, there hung, by way of car, an enormous drab beaver hat, with a brim superlatively broad, and a hemispherical crown with a black band and a silver buckle. It is, however, somewhat remarkable that many citizens of Rotterdam swore to having seen the same hat repeatedly before; and indeed the whole assembly seemed to regard it with eyes of familiarity; while the vrow Grettel Pfaall, upon sight of it, uttered an exclamation of joyful surprise, and declared it to be the identical hat of her good man himself. Now this was a circumstance the more to be observed, as Pfaall, with three companions, had actually disappeared from Rotterdam, about five years before, in a very sudden and unaccountable manner, and up to the date of this narrative all attempts at obtaining intelligence concerning them had failed. To be sure,

some bones which were thought to be human, mixed up with a quantity of odd-looking rubbish, had been lately discovered in a retired situation to the east of the city; and some people went so far as to imagine that in this spot a foul murder had been committed, and that the sufferers were in all probability Hans Pfaall and his associates.—But to return.

The balloon (for such no doubt it was) had now descended to within a hundred feet of the earth, allowing the crowd below a sufficiently distinct view of the person of its occupant. This was in truth a very singular somebody. He could not have been more than two feet in height; but this altitude, little as it was, would have been sufficient to destroy his *equilibrium*, and tilt him over the edge of his tiny car, but for the intervention of a circular rim reaching as high as the breast, and rigged on to the cords of the balloon. The body of the little man was more than proportionally broad, giving to his entire figure a rotundity highly absurd. His feet, of course, could not be seen at all. His hands were enormously large. His hair was gray, and collected into a *queue* behind. His nose was prodigiously long, crooked and inflammatory; his eyes full, brilliant, and acute; his chin and cheeks, although wrinkled with age, were broad, puffy, and double; but of ears of any kind there was not a semblance to be discovered upon any portion of his head. This odd little gentleman was dressed in a loose surtout of sky-blue satin, with tight breeches to match, fastened with silver buckles at the knees. His vest was of some bright yellow material; a white taffety cap was set jauntily on one side of his head; and, to complete his equipment, a blood-red silk handkerchief enveloped his throat, and fell down, in a dainty manner, upon his

bosom, in a fantastic bow-knot of super-eminent dimensions.

Having descended, as I said before, to about one hundred feet from the surface of the earth, the little old gentleman was suddenly seized with a fit of trepidation, and appeared disinclined to make any nearer approach to *terra firma*. Throwing out, therefore, a quantity of sand from a canvas bag, which he lifted with great difficulty he became stationary in an instant. He then proceeded in a hurried and agitated manner, to extract from a side-pocket in his surtout a large morocco pocket-book. This he poised suspiciously in his hand; then eyed it with an air of extreme surprise, and was evidently astonished at its weight. He at length opened it, and, drawing therefrom a huge letter sealed with red sealing-wax and tied carefully with red tape, let it fall precisely at the feet of the burgomaster Superbus Von Underduk. His Excellency stooped to take it up. But the æronaut, still greatly discomposed, and having apparently no further business to detain him in Rotterdam, began at this moment to make busy preparations for departure; and, it being necessary to discharge a portion of ballast to enable him to reascend, the half dozen bags which he threw out, one after another without taking the trouble to empty their contents, tumbled, every one of them, most unfortunately, upon the back of the burgomaster, and rolled him over and over no less than half a dozen times, in the face of every individual in Rotterdam. It is not to be supposed, however, that the great Underduk suffered this impertinence on the part of the little old man to pass off with impunity. It is said, on the contrary, that during each of his half dozen circumvolutions, he emitted no less than half a dozen

distinct and furious whiffs from his pipe, to which he held fast the whole time with all his might, and to which he intends holding fast, (God willing,) until the day of his decease.

In the meantime the balloon arose like a lark, and, soaring far away above the city, at length drifted quietly behind a cloud similar to that from which it had so oddly emerged, and was thus lost forever to the wondering eyes of the good citizens of Rotterdam. All attention was now directed to the letter, the descent of which, and the consequences attending thereupon, had proved so fatally subversive of both person and personal dignity to his Excellency, Von Underduk. That functionary, however, had not failed, during his circumgyratory movements, to bestow a thought upon the important object of securing the epistle, which was seen, upon inspection, to have fallen into the most proper hands, being actually addressed to himself and Professor Rubadub, in their official capacities of President and Vice-President of the Rotterdam College of Astronomy. It was accordingly opened by those dignitaries upon the spot, and found to contain the following extraordinary, and indeed very serious, communication:—

To their Excellencies Von Underduk and Rubadub, President and Vice-President of the States' College of Astronomers, in the city of Rotterdam.

Your Excellencies may perhaps be able to remember an humble artizan, by name Hans Pfaall, and by occupation a mender of bellows, who, with three others, disappeared from Rotterdam, about five years ago, in a manner which must have been considered unaccountable. If, however, it so please your Excellencies, I, the writer of this communi-

cation, am the identical Hans Pfaall himself. It is well known to most of my fellow-citizens, that for the period of forty years I continued to occupy the little square brick building, at the head of the alley called Sauerkraut, in which I resided at the time of my disappearance. My ancestors have also resided therein time out of mind—they, as well as myself, steadily following the respectable and indeed lucrative profession of mending of bellows: for, to speak the truth, until of late years, that the heads of all the people have been set agog with politics, no better business than my own could an honest citizen of Rotterdam either desire or deserve. Credit was good, employment was never wanting, and there was no lack of either money or good will. But, as I was saying, we soon began to feel the effects of liberty and long speeches, and radicalism, and all that sort of thing. People who were formerly the very best customers in the world, had now not a moment of time to think of us at all. They had as much as they could do to read about the revolutions, and keep up with the march of intellect and the spirit of the age. If a fire wanted fanning, it could readily be fanned with a newspaper; and as the government grew weaker, I have no doubt that leather and iron acquired durability in proportion—for, in a very short time, there was not a pair of bellows in all Rotterdam that ever stood in need of a stitch or required the assistance of a hammer. This was a state of things not to be endured. I soon grew as poor as a rat, and, having a wife and children to provide for, my burdens at length became intolerable, and I spent hour after hour in reflecting upon the most convenient method of putting an end to my life. Duns, in the meantime, left me little leisure for contemplation. My house was literally besieged

from morning till night. There were three fellows in particular, who worried me beyond endurance, keeping watch continually about my door, and threatening me with the law. Upon these three I vowed the bitterest revenge, if ever I should be so happy as to get them within my clutches; and I believe nothing in the world but the pleasure of this anticipation prevented me from putting my plan of suicide into immediate execution, by blowing my brains out with a blunderbuss. I thought it best, however, to dissemble my wrath, and to treat them with promises and fair words, until, by some good turn of fate, an opportunity of vengeance should be afforded me.

One day, having given them the slip, and feeling more than usually dejected, I continued for a long time to wander about the most obscure streets without object, until at length I chanced to stumble against the corner of a bookseller's stall. Seeing a chair close at hand, for the use of customers, I threw myself doggedly into it, and, hardly knowing why, opened the pages of the first volume which came within my reach. It proved to be a small pamphlet treatise on Speculative Astronomy, written either by Professor Encke of Berlin, or by a Frenchman of somewhat similar name. I had some little tincture of information on matters of this nature, and soon became more and more absorbed in the contents of the book—reading it actually through twice before I awoke to a recollection of what was passing around me. By this time it began to grow dark, and I directed my steps toward home. But the treatise (in conjunction with a discovery in pneumatics, lately communicated to me as an important secret, by a cousin from Nantz,) had made an indelible impression on my mind, and, as I sauntered along the

dusky streets, I revolved carefully over in my memory the wild and sometimes unintelligible reasonings of the writer. There are some particular passages which affected my imagination in an extraordinary manner. The longer I meditated upon these, the more intense grew the interest which had been excited within me. The limited nature of my education in general, and more especially my ignorance on subjects connected with natural philosophy, so far from rendering me diffident of my own ability to comprehend what I had read, or inducing me to mistrust the many vague notions which had arisen in consequence, merely served as a farther stimulus to imagination; and I was vain enough, or perhaps reasonable enough, to doubt whether those crude ideas which, arising in ill-regulated minds, have all the appearance, may not often in effect possess all the force, the reality, and other inherent properties of instinct or intuition.

It was late when I reached home, and I went immediately to bed. My mind, however, was too much occupied to sleep, and I lay the whole night buried in meditation. Arising early in the morning I repaired eagerly to the bookseller's stall, and laid out what little ready money I possessed, in the purchase of some volumes of Mechanics and Practical Astronomy. Having arrived at home safely with these, I devoted every spare moment to their perusal, and soon made such proficiency in studies of this nature as I thought sufficient for the execution of a certain design with which either the devil or my better genius had inspired me. In the intervals of this period, I made every endeavor to conciliate the three creditors who had given me so much annoyance. In this I finally succeeded—partly by selling enough of my household furniture to

satisfy a moiety of their claim, and partly by a promise of paying the balance upon completion of a little project which I told them I had in view, and for assistance in which I solicited their services. By these means (for they were ignorant men) I found little difficulty in gaining them over to my purpose.

Matters being thus arranged, I contrived, by the aid of my wife, and with the greatest secrecy and caution, to dispose of what property I had remaining, and to borrow, in small sums, under various pretences, and without giving any attention (I am ashamed to say) to my future means of repayment, no inconsiderable quantity of ready money. With the means thus accruing I proceeded to procure at intervals, cambric muslin, very fine, in pieces of twelve yards each; twine; a lot of the varnish of caoutchouc; a large and deep basket of wicker-work, made to order; and several other articles necessary in the construction and equipment of a balloon of extraordinary dimensions. This I directed my wife to make up as soon as possible, and gave her all requisite information as to the particular method of proceeding. In the meantime I worked up the twine into net-work of sufficient dimensions; rigged it with a hoop and the necessary cords; and made purchase of numerous instruments and materials for experiment in the upper regions of the upper atmosphere. I then took opportunities of conveying by night, to a retired situation east of Rotterdam, five iron-bound casks, to contain about fifty gallons each, and one of a larger size; six tin tubes, three inches in diameter, properly shaped, and ten feet in length; a quantity of a *particular metallic substance, or semi-metal* which I shall not name, and a dozen demijohns of *a very common acid*. The gas to be formed from

these latter materials is a gas never yet generated by any other person than myself—or at least never applied to any similar purpose. I can only venture to say here, that it is *a constituent of azote*, so long considered irreducible, and that its density is about 37.4 times *less than that of hydrogen*. It is tasteless, but not odorless; burns, when pure, with a greenish flame, and is instantaneously fatal to animal life. Its full secret I would make no difficulty in disclosing, but that it of right belongs (as I have before hinted) to a citizen of Nantz, in France, by whom it was conditionally communicated to myself. The same individual submitted to me, without being at all aware of my intentions, a method of constructing balloons from the membrane of a certain animal, through which substance any escape of gas was nearly an impossibility. I found it, however, altogether too expensive, and was not sure, upon the whole, whether cambric muslin with a coating of gum caoutchouc, was not equally as good. I mention this circumstance, because I think it probable that hereafter the individual in question may attempt a balloon ascension with the novel gas and material I have spoken of, and I do not wish to deprive him of the honor of a very singular invention.

On the spot which I intended each of the smaller casks to occupy respectively during the inflation of the balloon, I privately dug a small hole; the holes forming in this manner a circle twenty-five feet in diameter. In the centre of this circle, being the station designed for the large cask, I also dug a hole of greater depth. In each of the five smaller holes, I deposited a canister containing fifty pounds, and in the larger one a keg holding one hundred and fifty pounds of cannon powder. These—the keg and the canisters—I connected in a proper manner with

covered trains; and having let into one of the canisters the end of about four feet of slow-match, I covered up the hole, and placed the cask over it, leaving the other end of the match protruding about an inch, and barely visible beyond the cask. I then filled up the remaining holes, and placed the barrels over them in their destined situation!

Besides the articles above enumerated, I conveyed to the *dêpôt*, and there secreted, one of M. Grimm's improvements upon the apparatus for condensation of the atmospheric air. I found this machine, however, to require considerable alteration before it could be adapted to the purposes to which I intended making it applicable. But, with severe labor and unremitting perseverance, I at length met with entire success in all my preparations. My balloon was soon completed. It would contain more than forty thousand cubic feet of gas; would take me up easily, I calculated, with all my implements, and, if I managed rightly, with one hundred and seventy-five pounds of ballast into the bargain. It had received three coats of varnish, and I found the cambric muslin to answer all the purposes of silk itself, being quite as strong and a good deal less expensive.

Everything being now ready, I exacted from my wife an oath of secrecy in relation to all my actions from the day of my first visit to the bookseller's stall; and promising, on my part, to return as soon as circumstances would permit, I gave her what little money I had left, and bade her farewell. Indeed I had no fear on her account. She was what people call a notable woman, and could manage matters in the world without my assistance. I believe, to tell the truth, she always looked upon me as an idle body—a mere make-weight—good for nothing but building castles in the air—and was

rather glad to get rid of me. It was a dark night when I bade her good bye, and taking with me, as *aides-de-camp*, the three creditors who had given me so much trouble, we carried the balloon, with the car and accoutrements, by a roundabout way, to the station where the other articles were deposited. We there found them all unmolested, and I proceeded immediately to business.

It was the first of April. The night, as I said before, was dark; there was not a star to be seen; and a drizzling rain, falling at intervals, rendered us very uncomfortable. But my chief anxiety was concerning the balloon, which, in spite of the varnish with which it was defended, began to grow rather heavy with the moisture; the powder also was liable to damage. I therefore kept my three duns working with great diligence, pounding down ice around the central cask, and stirring the acid in the others. They did not cease, however, importuning me with questions as to what I intended to do with all this apparatus, and expressed much dissatisfaction at the terrible labor I made them undergo. They could not perceive (so they said) what good was likely to result from their getting wet to the skin, merely to take a part in such horrible incantations. I began to get uneasy, and worked away with all my might; for I verily believe the idiots supposed that I had entered into a compact with the devil, and that, in short, what I was now doing was nothing better than it should be. I was, therefore, in great fear of their leaving me altogether. I contrived, however, to pacify them by promises of payment of all scores in full, as soon as I could bring the present business to a termination. To these speeches they gave of course their own interpretation; fancying, no doubt, that at all events I should come into

possession of vast quantities of ready money; and provided I paid them all I owed, and a trifle more, in consideration of their services, I dare say they cared very little what became of either my soul or my carcass.

In about four hours and a half I found the balloon sufficiently inflated. I attached the car, therefore, and put all my implements in it—a telescope; a barometer, with some important modifications; a thermometer, an electrometer; a compass; a magnetic needle; a seconds watch; a bell; a speaking trumpet, etc., etc., etc.—also a globe of glass, exhausted of air, and carefully closed with a stopper—not forgetting the condensing apparatus, some unslacked lime, a stick of sealing wax, a copious supply of water, and a large quantity of provisions, such as pemmican, in which much nutriment is contained in comparatively little bulk. I also secured in the car a pair of pigeons and a cat.

It was now nearly daybreak, and I thought it high time to take my departure. Dropping a lighted cigar on the ground, as if by accident, I took the opportunity, in stooping to pick it up, of igniting privately the piece of slow match, the end of which, as I said before, protruded a little beyond the lower rim of one of the smaller casks. This manœuvre was totally unperceived on the part of the three duns; and, jumping into the car, I immediately cut the single cord which held me to the earth, and was pleased to find that I shot upwards with inconceivable rapidity, carrying with all ease one hundred and seventy-five pounds of leaden ballast, and able to have carried up as many more. As I left the earth, the barometer stood at thirty inches, and the centigrade thermometer at 19°.

Scarcely, however, had I attained the height of

fifty yards, when, roaring and rumbling up after me in the most tumultuous and terrible manner, came so dense a hurricane of fire, and gravel, and burning wood, and blazing metal, and mangled limbs, that my very heart sunk within me, and I fell down in the bottom of the car, trembling with terror. Indeed, I now preceived that I had entirely overdone the business, and that the main consequences of the shock were yet to be experienced. Accordingly, in less than a second, I felt all the blood in my body rushing to my temples, and, immediately thereupon, a concussion, which I shall never forget, burst abruptly through the night, and seemed to rip the very firmament asunder. When I afterwards had time for reflection, I did not fail to attribute the extreme violence of the explosion, as regarded myself, to its proper cause—my situation directly above it, and in the line of its greatest power. But at the time, I thought only of preserving my life. The balloon at first collapsed, then furiously expanded, then whirled round and round with sickening velocity, and finally, reeling and staggering like a drunken man, hurled me over the rim of the car, and left me dangling, at a terrific height, with my head downward, and my face outward, by a piece of slender cord about three feet in length, which hung accidentally through a crevice near the bottom of the wicker-work, and in which, as I fell, my left foot became most providentially entangled. It is impossible—utterly impossible—to form any adequate idea of the horror of my situation. I gasped convulsively for breath—a shudder resembling a fit of the ague agitated every nerve and muscle in my frame—I felt my eyes starting from their sockets—a horrible nausea overwhelmed me—and at length I lost all consciousness in a swoon.

How long I remained in this state it is impossible to say. It must, however, have been no inconsiderable time, for when I partially recovered the sense of existence, I found the day breaking, the balloon at a prodigious height over a wilderness of ocean, and not a trace of land to be discovered far and wide within the limits of the vast horizon. My sensations, however, upon thus recovering, were by no means so replete with agony as might have been anticipated. Indeed, there was much of madness in the calm survey which I began to take of my situation. I drew up to my eyes each of my hands, one after the other, and wondered what occurrence could have given rise to the swelling of the veins, and the horrible blackness of the finger nails. I afterwards carefully examined my head, shaking it repeatedly, and feeling it with minute attention, until I succeeded in satisfying myself that it was not, as I had more than half suspected, larger than my balloon. Then, in a knowing manner, I felt in both my breeches pockets, and, missing therefrom a set of tablets and a tooth-pick case, endeavored to account for their disappearance, and, not being able to do so, felt inexpressibly chagrined. It now occurred to me that I suffered great uneasiness in the joint of my left ankle, and a dim consciousness of my situation began to glimmer through my mind. But, strange to say! I was neither astonished nor horror-stricken. If I felt any emotion at all, it was a kind of chuckling satisfaction at the cleverness I was about to display in extricating myself from this dilemma; and never, for a moment, did I look upon my ultimate safety as a question susceptible of doubt. For a few minutes I remained wrapped in the profoundest meditation. I have a distinct recollection of frequently compressing my

lips, putting my fore-finger to the side of my nose, and making use of other gesticulations and grimaces common to men who, at ease in their arm-chairs, meditate upon matters of intricacy or importance. Having, as I thought, sufficiently collected my ideas, I now, with great caution and deliberation, put my hands behind my back, and unfastened the large iron buckle which belonged to the waistband of my pantaloons. This buckle had three teeth, which, being somewhat rusty, turned with great difficulty on their axis. I brought them, however, after some trouble, at right angles to the body of the buckle, and was glad to find them remain firm in that position. Holding within my teeth the instrument thus obtained, I now proceeded to untie the knot of my cravat. I had to rest several times before I could accomplish this manœuvre; but it was at length accomplished. To one end of the cravat I then made fast the buckle, and the other end I tied, for greater security, tightly around my wrist. Drawing now my body upwards, with a prodigious exertion of muscular force, I succeeded, at the very first trial, in throwing the buckle over the car, and entangling it, as I had anticipated, in the circular rim of the wicker-work.

My body was now inclined towards the side of the car, at an angle of about forty-five degrees; but it must not be understood that I was therefore only forty-five degrees below the perpendicular. So far from it, I still lay nearly level with the plane of the horizon; for the change of situation which I had acquired, had forced the bottom of the car considerably outward from my position, which was accordingly one of the most imminent peril. It should be remembered, however, that when I fell, in the first instance, from the car, if I had fallen with my face

turned toward the balloon, instead of turned outwardly from it as it actually was—or if, in the second place, the cord by which I was suspended had chanced to hang over the upper edge, instead of through a cervice near the bottom of the car—I say it may readily be conceived that, in either of these supposed cases, I should have been unable to accomplish even as much as I had now accomplished, and the disclosures now made would have been utterly lost to posterity. I had therefore every reason to be grateful; although, in point of fact, I was still too stupid to be anything at all, and hung for, perhaps, a quarter of an hour, in that extraordinary manner, without making the slightest farther exertion, and in a singularly tranquil state of idiotic enjoyment. But this feeling did not fail to die rapidly away, and thereunto succeeded horror, and dismay, and a sense of utter helplessness and ruin. In fact, the blood so long accumulating in the vessels of my head and throat, and which had hitherto buoyed up my spirits with delirium, had now begun to retire within their proper channels, and the distinctness which was thus added to my perception of the danger, merely served to deprive me of the self-possession and courage to encounter it. But this weakness was, luckily for me, of no very long duration. In good time came to my rescue the spirit of despair, and, with frantic cries and struggles, I jerked my way bodily upwards, till, at length, clutching with a vice-like grip the long-desired rim, I writhed my person over it, and fell headlong and shuddering within the car.

It was not until some time afterward that I recovered myself sufficiently to attend to the ordinary cares of the balloon. I then, however, examined it with attention, and found it, to my

great relief, uninjured. My implements were all safe, and, fortunately, I had lost neither ballast nor provisions. Indeed, I had so well secured them in their places, that such an accident was entirely out of the question. Looking at my watch, I found it six o'clock. I was still rapidly ascending, and the barometer gave a present altitude of three and three-quarter miles. Immediately beneath me in the ocean, lay a small black object, slightly oblong in shape, seemingly about the size of a domino, and in every respect bearing a great resemblance to one of those toys. Bringing my telescope to bear upon it, I plainly discerned it to be a British ninety-four gun ship, close-hauled, and pitching heavily in the sea with her head to the W. S. W. Besides this ship, I saw nothing but the ocean and the sky, and the sun, which had long arisen.

It is now high time that I should explain to your Excellencies the object of my voyage. Your Excellencies will bear in mind that distressed circumstances in Rotterdam had at long driven me to the resolution of committing suicide. It was not, however, that to life itself I had any positive disgust, but that I was harassed beyond endurance by the adventitious miseries attending my situation. In this state of mind, wishing to live, yet wearied with life, the treatise at the stall of the bookseller, backed by the opportune discovery of my cousin of Nantz, opened a resource to my imagination. I then finally made up my mind. I determined to depart, yet live—to leave the world, yet continue to exist—in short, to drop enigmas, I resolved, let what would ensue, to force a passage, if I could, *to the moon*. Now, lest I should be supposed more of a madman than I actually am, I will detail, as well as I am able, the considerations which led me to believe that an

achievement of this nature, although without doubt difficult, and full of danger, was not absolutely, to a bold spirit, beyond the confines of the possible.

The moon's actual distance from the earth was the first thing to be attended to. Now, the mean or average interval between the *centres* of the two planets is 59.9643 of the earth's equatorial *radii*, or only about 237,000 miles. I say the mean or average interval;—but it must be borne in mind, that the form of the moon's orbit being an ellipse of eccentricity amounting to no less than 0.05484 of the major semi-axis of the ellipse itself, and the earth's centre being situated in its focus, if I could, in any manner, contrive to meet the moon in its perigee, the above-mentioned distance would be materially diminished. But to say nothing, at present, of this possibility, it was very certain that, at all events, from the 237,000 miles I would have to deduct the *radius* of the earth, say 4000, and the radius of the moon, say 1080, in all 5080, leaving an actual interval to be traversed, under average circumstances, of 231,920 miles. Now this, I reflected, was no very extraordinary distance. Travelling on the land has been repeatedly accomplished at the rate of sixty miles per hour; and indeed a much greater speed may be anticipated. But even at this velocity, it would take me no more than 161 days to reach the surface of the moon. There were, however, many particulars inducing me to believe that my average rate of travelling might possibly very much exceed that of sixty miles per hour, and, as these considerations did not fail to make a deep impression upon my mind, I will mention them more fully hereafter.

The next point to be regarded was one of far greater importance. From indications afforded by the barometer, we find that, in ascensions from the

surface of the earth we have, at the height of 1000 feet, left below us about one-thirtieth of the entire mass of atmospheric air; that at 10,600, we have ascended through nearly one-third; and that at 18,000, which is not far from the elevation of Cotopaxi, we have surmounted one-half the material, or, at all events, one-half the *ponderable* body of air incumbent upon our globe. It is also calculated, that at an altitude not exceeding the hundredth part of the earth's diameter—that is, not exceeding eighty miles—the rarefaction would be so excessive that animal life could in no manner be sustained, and, moreover, that the most delicate means we possess of ascertaining the presence of the atmosphere, would be inadequate to assure us of its existence. But I did not fail to perceive that these latter calculations are founded altogether on our experimental knowledge of the properties of air, and the mechanical laws regulating its dilation and compression, in what may be called, comparatively speaking, *the immediate vicinity* of the earth itself; and, at the same time, it is taken for granted that animal life is and must be, essentially *incapable of modification* at any given unattainable distance from the surface. Now, all such reasoning and from such *data*, must of course be simply analogical. The greatest height ever reached by man was that of 25,000 feet, attained in the æronautic expedition of Messieurs Gay-Lussac and Biot. This is a moderate altitude, even when compared with the eighty miles in question; and I could not help thinking that the subject admitted room for doubt, and great latitude for speculation.

But, in point of fact, an ascension being made to any given altitude, the ponderable quantity of air surmounted in any *farther* ascension, is by no means in proportion to the additional height ascended,

(as may be plainly seen from what has been stated before,) but in a *ratio* constantly decreasing. It is therefore evident that, ascend as high as we may, we cannot, literally speaking, arrive at a limit beyond which *no* atmosphere is to be found. It *must exist*, I argued; although it *may* exist in a state of infinite rarefaction.

On the other hand, I was aware that arguments have not been wanting to prove the existence of a real and definite limit to the atmosphere, beyond which there is absolutely no air whatsoever. But a circumstance which has been left out of view by those who contend for such a limit, seemed to me, although no positive refutation of their creed, still a point worthy very serious investigation. On comparing the intervals between the successive arrivals of Encke's comet at its perihelion, after giving credit, in the most exact manner, for all the disturbances due to the attractions of the planets, it appears that the periods are gradually diminishing; that is to say, the major axis of the comet's ellipse is growing shorter, in a slow but perfectly regular decrease. Now, this is precisely what ought to be the case, if we suppose a resistance experienced from the comet from an extremely *rare ethereal medium* pervading the regions of its orbit. For it is evident that such a medium must, in retarding the comet's velocity, increase its centripetal, by weakening its centrifugal force. In other words, the sun's attraction would be constantly attaining greater power, and the comet would be drawn nearer at every revolution. Indeed, there is no other way of accounting for the variation in question. But again:—The real diameter of the same comet's nebulosity, is observed to contract rapidly as it approaches the sun, and dilate with equal rapidity in its departure

toward its aphelion. Was I not justifiable in supposing, with M. Valz, that this apparent condensation of volume has its origin in the compression of the same ethereal medium I have spoken of before, and which is dense in proportion to its vicinity to the sun? The lenticular-shaped phenomenon, also, called the zodiacal light, was a matter worthy of attention. This radiance, so apparent in the tropics, and which cannot be mistaken for any meteoric lustre, extends from the horizon obliquely upwards, and follows generally the direction of the sun's equator. It appeared to me evidently in the nature of a rare atmosphere extending from the sun outwards, beyond the orbit of Venus at least, and I believed indefinitely farther.* Indeed, this medium I could not suppose confined to the path of the comet's ellipse, or to the immediate neighborhood of the sun. It was easy, on the contrary, to imagine it pervading the entire regions of our planetary system, condensed into what we call atmosphere at the planets themselves, and perhaps at some of them modified, by considerations purely geological; that is to say, modified, or varied in its proportions (or absolute nature) by matters volatilized from the respective orbs.

Having adopted this view of the subject, I had little farther hesitation. Granting that on my passage I should meet with atmosphere *essentially* the same as at the surface of the earth, I conceived that, by means of the very ingenious apparatus of M. Grimm, I should readily be enabled to condense it in sufficient quantity for the purposes of respiration. This would remove the chief obstacle in a journey to the moon. I had indeed spent some money and

* The zodiacal light is probably what the ancients called *Trabes*. *Emicant Trabes quos docos vocant.*—Pliny lib. 2, p. 26

great labor in adapting the apparatus to the object intended, and confidently looked forward to its successful application, if I could manage to complete the voyage within any reasonable period.—This brings me back to the *rate* at which it would be possible to travel.

It is true that balloons, in the first stage of their ascensions from the earth, are known to rise with a velocity comparatively moderate. Now, the power of elevation lies altogether in the superior gravity of the atmospheric air compared with the gas in the balloon; and, at first sight, it does not appear probable that, as the balloon acquires altitude, and consequently arrives successively in atmospheric *strata* of densities rapidly diminishing—I say, it does not appear at all reasonable that, in this its progress upward, the original velocity should be accelerated. On the other hand, I was not aware that, in any recorded ascension, a *diminution* had been proved to be apparent in the absolute rate of ascent; although such should have been the case, if on account of nothing else, on account of the escape of gas through balloons ill-constructed, and varnished with no better material than the ordinary varnish. It seemed, therefore, that the effect of such escape was only sufficient to counterbalance the effect of the acceleration attained in the diminishing of the balloon's distance from the gravitating centre. I now considered that, provided in my passage I found the *medium* I had imagined, and provided it should prove to be *essentially* what we denominate atmospheric air, it could make comparatively little difference at what extreme state of rarefaction I should discover it—that is to say, in regard to my power of ascending—for the gas in the balloon would not only be itself subject to similar rarefaction, (in

proportion to the occurrence of which, I could suffer an escape of so much as would be requisite to prevent explosion,) but, *being what it was*, would, at all events continue specifically lighter than any compound whatever of mere nitrogen and oxygen. Thus there was a chance—in fact, there was a strong probability—that, *at no epoch of my ascent, I should reach a point where the united weights of my immense balloon, the inconceivably rare gas within it, the car, and its contents, should equal the weight of the mass of the surrounding atmosphere displaced;* and this will be readily understood as the sole condition upon which my upward flight would be arrested. But, if this point were even attained, I could dispense with ballast and other weight to the amount of nearly 300 pounds. In the meantime, the force of gravitation would be constantly diminishing, in proportion to the squares of the distances, and so, with a velocity prodigiously accelerating, I should at length arrive in those distant regions where the force of the earth's attraction would be superseded by that of the moon.

There was another difficulty, however, which occasioned me some little disquietude. It has been observed, that, in balloon ascensions to any considerable height, besides the pain attending respiration, great uneasiness is experienced about the head and body, often accompanied with bleeding at the nose, and other symptoms of an alarming kind, and growing more and more inconvenient in proportion to the altitude attained.* This was a reflection of a nature somewhat startling. Was it not probable that these symptoms would increase until terminated

* Since the original publication of Hans Pfaall, I find that Mr. Green, of Nassau-balloon notoriety, and other late æronauts, deny the assertions of Humboldt, in this respect, and speak of a *decreasing* inconvenience,—precisely in accordance with the theory here urged.

by death itself? I finally thought not. Their origin was to be looked for in the progressive removal of the *customary* atmospheric pressure upon the surface of the body, and consequent distention of the superficial blood-vessels—not in any positive disorganization of the animal system, as in the case of difficulty in breathing, where the atmospheric density is *chemically insufficient* for the due renovation of blood in a ventricle of the heart. Unless for default of this renovation, I could see no reason, therefore, why life could not be sustained even in a *vacuum;* for the expansion and compression of chest, commonly called breathing, is action purely muscular, and the *cause*, not the *effect*, of respiration. In a word, I conceived that, as the body should become habituated to the want of atmospheric pressure, these sensations of pain would gradually diminish—and to endure them while they continued, I relied with confidence upon the iron hardihood of my constitution.

Thus, may it please your Excellencies, I have detailed some, though by no means all, the considerations which led me to form the project of a lunar voyage. I shall now proceed to lay before you the result of an attempt so apparently audacious in conception, and, at all events, so utterly unparalleled in the annals of mankind.

Having attained the altitude before mentioned—that is to say, three miles and three quarters—I threw out from the car a quantity of feathers, and found that I still ascended with sufficient rapidity; there was, therefore, no necessity for discharging any ballast. I was glad of this, for I wished to retain with me as much weight as I could carry, for the obvious reason that I could not be *positive* either about the gravitation or the atmospheric density of

the moon. I as yet suffered no bodily inconvenience, breathing with great freedom, and feeling no pain whatever in the head. The cat was lying very demurely upon my coat, which I had taken off, and eyeing the pigeons with an air of *nonchalance*. These latter being tied by the leg, to prevent their escape, were busily employed in picking up some grains of rice scattered for them in the bottom of the car.

At twenty minutes past six o'clock, the barometer showed an elevation of 26,400 feet, or five miles to a fraction. The prospect seemed unbounded. Indeed, it is very easily calculated by means of spherical geometry, how great an extent of the earth's area I beheld. The convex surface of any segment of a sphere is, to the entire surface of the sphere itself, as the versed sine of the segment to the diameter of the sphere. Now, in my case, the versed sine—that is to say, the *thickness* of the segment beneath me—was about equal to my elevation, or the elevation of the point of sight above the surface. "As five miles, then, to eight thousand," would express the proportion of the earth's area seen by me. In other words, I beheld as much as a sixteen-hundredth part of the whole surface of the globe. The sea appeared unruffled as a mirror, although, by means of the telescope, I could perceive it to be in a state of violent agitation. The ship was no longer visible, having drifted away, apparently, to the eastward. I now began to experience, at intervals, severe pain in the head, especially about the ears—still, however, breathing with tolerable freedom. The cat and pigeons seemed to suffer no inconvenience whatsoever.

At twenty minutes before seven, the balloon entered a long series of dense cloud, which put me

to great trouble, by damaging my condensing apparatus, and wetting me to the skin. This was, to be sure, a singular *rencontre*, for I had not believed it possible that a cloud of this nature could be sustained at so great an elevation. I thought it best, however, to throw out two five-pound pieces of ballast, reserving still a weight of one hundred and sixty-five pounds. Upon so doing, I soon rose above the difficulty, and perceived immediately, that I had obtained a great increase in my rate of ascent. In a few seconds after my leaving the cloud, a flash of vivid lightning shot from one end of it to the other, and caused it to kindle up, throughout its vast extent, like a mass of ignited charcoal. This, it must be remembered, was in the broad light of day. No fancy may picture the sublimity which might have been exhibited by a similar phenomenon taking place amid the darkness of the night. Hell itself might then have found a fitting image. Even as it was, my hair stood on end, while I gazed afar down within the yawning abysses, letting imagination descend, and stalk about in the strange vaulted halls, and ruddy gulfs, and red ghastly chasms of the hideous and unfathomable fire. I had indeed made a narrow escape. Had the balloon remained a very short while longer within the cloud—that is to say, had not the inconvenience of getting wet, determined me to discharge the ballast—my destruction might, and probably would, have been the consequence. Such perils, although little considered, are perhaps the greatest which must be encountered in balloons. I had by this time, however, attained too great an elevation to be any longer uneasy on this head.

I was now rising rapidly, and by seven o'clock the barometer indicated an altitude of no less than nine

miles and a half. I began to find great difficulty in drawing my breath. My head, too, was excessively painful; and, having felt for some time a moisture about my cheeks, I at length discovered it to be blood, which was oozing quite fast from the drums of my ears. My eyes, also, gave me great uneasiness. Upon passing the hand over them they seemed to have protruded from their sockets in no inconsiderable degree; and all objects in the car, and even the balloon itself, appeared distorted to my vision. These symptoms were more than I had expected, and occasioned me some alarm. At this juncture, very imprudently, and without consideration, I threw out from the car three five-pound pieces of ballast. The accelerated rate of ascent thus obtained carried me too rapidly, and without sufficient gradation, into a highly rarefied *stratum* of the atmosphere, and the result had nearly proved fatal to my expedition and to myself. I was suddenly seized with a spasm which lasted for more than five minutes, and even when this, in a measure, ceased, I could catch my breath only at long intervals, and in a gasping manner,—bleeding all the while copiously at the nose and ears, and even slightly at the eyes. The pigeons appeared distressed in the extreme, and struggled to escape; while the cat mewed piteously, and, with her tongue hanging out of her mouth, staggered to and fro in the car as if under the influence of poison. I now too late discovered the great rashness of which I had been guilty in discharging the ballast, and my agitation was excessive. I anticipated nothing less than death, and death in a few minutes. The physical suffering I underwent contributed also to render me nearly incapable of making any exertion for the preservation of my life. I had, indeed, little power of reflection left, and the

violence of the pain in my head seemed to be greatly on the increase. Thus I found that my senses would shortly give way altogether, and I had already clutched one of the valve ropes with the view of attempting a descent, when the recollection of the trick I had played the three creditors, and the possible consequences to myself, should I return, operated to deter me for the moment. I lay down in the bottom of the car, and endeavored to collect my faculties. In this I so far succeeded as to determine upon the experiment of losing blood. Having no lancet, however, I was constrained to perform the operation in the best manner I was able, and finally succeeded in opening a vein in my left arm, with the blade of my penknife. The blood had hardly commenced flowing when I experienced a sensible relief, and by the time I had lost about half a moderate basin-full, most of the worst symptoms had abandoned me entirely. I nevertheless did not think it expedient to attempt getting on my feet immediately; but, having tied up my arm as well as I could, I lay still for about a quarter of an hour. At the end of this time I arose, and found myself freer from absolute *pain* of any kind than I had been during the last hour and a quarter of my ascension. The difficulty of breathing, however, was diminished in a very slight degree, and I found that it would soon be positively necessary to make use of my condenser. In the meantime, looking towards the cat, who was again snugly stowed away upon my coat, I discovered, to my infinite surprise, that she had taken the opportunity of my indisposition to bring into light a litter of three little kittens. This was an addition to the number of passengers on my part altogether unexpected; but I was pleased at the occurrence. It would afford me a chance of bringing

to a kind of test the truth of a surmise, which, more than anything else, had influenced me in attempting this ascension. I had imagined that the *habitual* endurance of the atmospheric pressure at the surface of the earth was the cause, or nearly so, of the pain attending animal existence at a distance above the surface. Should the kittens be found to suffer uneasiness *in an equal degree with their mother*, I must consider my theory in fault, but a failure to do so I should look upon as a strong confirmation of my idea.

By eight o'clock I had actually attained an elevation of seventeen miles above the surface of the earth. Thus it seemed to me evident that my rate of ascent was not only on the increase, but that the progression would have been apparent in a slight degree even had I not discharged the ballast which I did. The pains in my head and ears returned, at intervals, with violence, and I still continued to bleed occasionally at the nose: but, upon the whole, I suffered much less than might have been expected. I breathed, however, at every moment, with more and more difficulty, and each inhalation was attended with a troublesome spasmodic action of the chest. I now unpacked the condensing apparatus, and got it ready for immediate use

The view of the earth, at this period of my ascension, was beautiful indeed. To the westward, the northward, and the southward, as far as I could see, lay a boundless sheet of apparently unruffled ocean, which every moment gained a deeper and deeper tint of blue. At a vast distance to the eastward, although perfectly discernible, extended the islands of Great Britain, the entire Atlantic coasts of France and Spain, with a small portion of the northern part of the continent of Africa. Of individual edifices

not a trace could be discovered, and the proudest cities of mankind had utterly faded away from the face of the earth.

What mainly astonished me, in the appearance of things below, was the seeming concavity of the surface of the globe. I had, thoughtlessly enough, expected to see its real *convexity* become evident as I ascended; but a very little reflection sufficed to explain the discrepancy. A line, dropped from my position perpendicularly to the earth, would have formed the perpendicular of a right-angled triangle, of which the base would have extended from the right-angle to the horizon, and the hypothenuse from the horizon to my position. But my height was little or nothing in comparison with my prospect. In other words, the base and hypothenuse of the supposed triangle would, in my case, have been so long, when compared to the perpendicular, that the two former might have been regarded as nearly parallel. In this manner the horizon of the æronaut appears always to be *upon a level* with the car. But as the point immediately beneath him seems, and is, at a great distance below him, it seems, of course, also at a great distance below the horizon. Hence the impression of concavity; and this impression must remain, until the elevation shall bear so great a proportion to the prospect, that the apparent parallelism of the base and hypothenuse, disappears.

The pigeons about this time seeming to undergo much suffering, I determined upon giving them their liberty. I first untied one of them, a beautiful gray-mottled pigeon, and placed him upon the rim of the wicker-work. He appeared extremely uneasy, looking anxiously around him, fluttering his wings, and making a loud cooing noise, but could not be persuaded to trust himself from the car. I took him up

at last, and threw him to about half-a-dozen yards from the balloon. He made, however, no attempt to descend as I had expected, but struggled with great vehemence to get back, uttering at the same time very shrill and piercing cries. He at length succeeded in regaining his former station on the rim, but had hardly done so when his head dropped upon his breast, and he fell dead within the car. The other one did not prove so unfortunate. To prevent his following the example of his companion, and accomplishing a return, I threw him downwards with all my force, and was pleased to find him continue his descent, with great velocity, making use of his wings with ease, and in a perfectly natural manner. In a very short time he was out of sight, and I have no doubt he reached home in safety. Puss, who seemed in a great measure recovered from her illness, now made a hearty meal of the dead bird, and then went to sleep with much apparent satisfaction. Her kittens were quite lively and so far evinced not the slightest sign of any uneasiness.

At a quarter-past eight, being able no longer to draw breath without the most intolerable pain, I proceeded, forthwith, to adjust around the car the apparatus belonging to the condenser. This apparatus will require some little explanation, and your Excellencies will please to bear in mind that my object, in the first place, was to surround myself and car entirely with a barricade against the highly rarefied atmosphere in which I was existing, with the intention of introducing within this barricade, by means of my condenser, a quantity of this same atmosphere sufficiently condensed for the purpose of respiration. With this object in view I had prepared a very strong, perfectly air-tight, but flexible gum-elastic bag. In this bag, which was of sufficient

dimensions, the entire car was in a manner placed. That is to say, it (the bag) was drawn over the whole bottom of the car, up its sides, and so on, along the outside of the ropes, to the upper rim or hoop where the net-work is attached. Having pulled the bag up in this way, and formed a complete enclosure on all sides, and at bottom, it was now necessary to fasten up its top or mouth, by passing its material over the hoop of the net-work,—in other words, between the net-work and the hoop. But if the net-work were separated from the hoop to admit this passage, what was to sustain the car in the meantime? Now the net-work was not permanently fastened to the hoop, but attached by a series of running loops or nooses. I therefore undid only a few of these loops at one time, leaving the car suspended by the remainder. Having thus inserted a portion of the cloth forming the upper part of the bag, I refastened the loops—not to the hoop, for that would have been impossible, since the cloth now intervened,—but to a series of large buttons, affixed to the cloth itself, about three feet below the mouth of the bag; the intervals between the buttons having been made to correspond to the intervals between the loops. This done, a few more of the loops were unfastened from the rim, a farther portion of the cloth introduced, and the disengaged loops then connected with their proper buttons. In this way it was possible to insert the whole upper part of the bag between the net-work and the hoop. It is evident that the hoop would now drop down within the car, while the whole weight of the car itself, with all its contents, would be held up merely by the strength of the buttons. This, at first sight, would seem an inadequate dependence; but it was by no means so, for the buttons were not only very strong in themselves, but so close

together that a very slight portion of the whole weight was supported by any one of them. Indeed, had the car and contents been three times heavier than they were, I should not have been at all uneasy. I now raised up the hoop again within the covering of gum-elastic, and propped it at nearly its former height by means of three light poles prepared for the occasion. This was done, of course, to keep the bag distended at the top, and to preserve the lower part of the net-work in its proper situation. All that now remained was to fasten up the mouth of the enclosure; and this was readily accomplished by gathering the folds of the material together, and twisting them up very tightly on the inside by means of a kind of stationary *tourniquet*.

In the sides of the covering thus adjusted round the car, had been inserted three circular panes of thick but clear glass, through which I could see without difficulty around me in every horizontal direction. In that portion of the cloth forming the bottom, was likewise a fourth window, of the same kind, and corresponding with a small aperture in the floor of the car itself. This enabled me to see perpendicularly down, but having found it impossible to place any similar contrivance overhead, on account of the peculiar manner of closing up the opening there, and the consequent wrinkles in the cloth, I could expect to see no objects situated directly in my zenith. This, of course, was a matter of little consequence; for, had I even been able to place a window at top, the balloon itself would have prevented my making any use of it.

About a foot below one of the side windows was a circular opening, three inches in diameter, and fitted with a brass rim adapted in its inner edge to the windings of a screw. In this rim was screwed the

large tube of the condenser, the body of the machine being, of course, within the chamber of gum-elastic. Through this tube a quantity of the rare atmosphere circumjacent being drawn by means of a *vacuum* created in the body of the machine, was thence discharged, in a state of condensation, to mingle with the thin air already in the chamber. This operation, being repeated several times, at length filled the chamber with atmosphere proper for all the purposes of respiration. But in so confined a space it would, in a short time, necessarily become foul, and unfit for use from frequent contact with the lungs. It was then ejected by a small valve at the bottom of the car;—the dense air readily sinking into the thinner atmosphere below. To avoid the inconvenience of making a total *vacuum* at any moment within the chamber, this purification was never accomplished all at once, but in a gradual manner,—the valve being opened only for a few seconds, then closed again, until one or two strokes from the pump of the condenser had supplied the place of the atmosphere ejected. For the sake of experiment I had put the cat and kittens in a small basket, and suspended it outside the car to a button at the bottom, close by the valve, through which I could feed them at any moment when necessary. I did this at some little risk, and before closing the mouth of the chamber, by reaching under the car with one of the poles before mentioned to which a hook had been attached. As soon as dense air was admitted in the chamber, the hoop and poles became unnecessary; the expansion of the enclosed atmosphere powerfully distending the gum-elastic.

By the time I had fully completed these arrangements and filled the chamber as explained, it wanted only ten minutes of nine o'clock. During the whole

period of my being thus employed, I endured the most terrible distress from difficulty of respiration; and bitterly did I repent the negligence, or rather fool-hardiness, of which I had been guilty, of putting off to the last moment a matter of so much importance. But having at length accomplished it, I soon began to reap the benefit of my invention. Once again I breathed with perfect freedom and ease—and indeed why should I not? I was also agreeably surprised to find myself, in a great measure, relieved from the violent pains which had hitherto tormented me. A slight headache, accompanied with a sensation of fulness or distention about the wrists, the ankles, and the throat, was nearly all of which I had now to complain. Thus it seemed evident that a greater part of the uneasiness attending the removal of atmospheric pressure had actually *worn off*, as I had expected, and that much of the pain endured for the last two hours should have been attributed altogether to the effects of a deficient respiration.

At twenty minutes before nine o'clock—that is to say, a short time prior to my closing up the mouth of the chamber, the mercury attained its limit, or ran down, in the barometer, which, as I mentioned before, was one of an extended construction. It then indicated an altitude on my part of 132,000 feet or five-and-twenty miles, and I consequently surveyed at that time an extent of the earth's area amounting to no less than the three-hundred-and twentieth part of its entire superficies. At nine o'clock I had again lost sight of land to the eastward, but not before I became aware that the balloon was drifting rapidly to the N. N. W. The ocean beneath me still retained its apparent concavity, although my view was often interrupted by the masses of cloud which floated to and fro.

At half past nine I tried the experiment of throwing out a handful of feathers through the valve. They did not float as I had expected; but dropped down perpendicularly, like a bullet, *en masse*, and with the greatest velocity,—being out of sight in a very few seconds. I did not at first know what to make of this extraordinary phenomenon; not being able to believe that my rate of ascent had, of a sudden, met with so prodigious an acceleration. But it soon occurred to me that the atmosphere was now far too rare to sustain even the feathers; that they actually fell, as they appeared to do, with great rapidity; and that I had been surprised by the united velocities of their descent and my own elevation.

By ten o'clock I found that I had very little to occupy my immediate attention. Affairs went on swimmingly, and I believed the balloon to be going upwards with a speed increasing momently, although I had no longer any means of ascertaining the progression of the increase. I suffered no pain or uneasiness of any kind, and enjoyed better spirits than I had at any period since my departure from Rotterdam; busying myself now in examining the state of my various apparatus, and now in regenerating the atmosphere within the chamber. This latter point I determined to attend to at regular intervals of forty minutes, more on account of the preservation of my health, than from so frequent a renovation being absolutely necessary. In the meanwhile I could not help making anticipations. Fancy revelled in the wild and dreamy regions of the moon. Imagination, feeling herself for once unshackled, roamed at will among the ever-changing wonders of a shadowy and unstable land. Now there were hoary and time-honored forests, and

craggy precipices, and waterfalls tumbling with a loud noise into abysses without a bottom. Then I came suddenly into still noonday solitudes, where no wind of heaven ever intruded, and where vast meadows of poppies, and slender, lily-looking flowers spread themselves out a weary distance, all silent and motionless for ever. Then again I journeyed far down away into another country where it was all one dim and vague lake, with a boundary-line of clouds. But fancies such as these were not the sole possessors of my brain. Horrors of a nature most stern and most appalling would too frequently obtrude themselves upon my mind, and shake the innermost depths of my soul with the bare supposition of their possibility. Yet I would not suffer my thoughts for any length of time to dwell upon these latter speculations, rightly judging the real and palpable dangers of the voyage sufficient for my undivided attention.

At five o'clock, P. M., being engaged in regenerating the atmosphere within the chamber, I took that opportunity of observing the cat and kittens through the valve. The cat herself appeared to suffer again very much, and I had no hesitation in attributing her uneasiness chiefly to a difficulty in breathing; but my experiment with the kittens had resulted very strangely. I had expected, of course, to see them betray a sense of pain, although in a less degree than their mother; and this would have been sufficient to confirm my opinion concerning the habitual endurance of atmospheric pressure. But I was not prepared to find them, upon close examination, evidently enjoying a high degree of health, breathing with the greatest ease and perfect regularity, and evincing not the slightest sign of any uneasiness. I could only account for all this by ex-

tending my theory, and supposing that the highly rarefied atmosphere around, might perhaps not be, as I had taken for granted, chemically insufficient for the purposes of life, and that a person born in such a *medium* might, possibly, be unaware of any inconvenience attending its inhalation, while, upon removal to the denser *strata* near the earth, he might endure tortures of a similar nature to those I had so lately experienced. It has since been to me a matter of deep regret that an awkward accident, at this time, occasioned me the loss of my little family of cats, and deprived me of the insight into this matter which a continued experiment might have afforded. In passing my hand through the valve, with a cup of water for the old puss, the sleeve of my shirt became entangled in the loop which sustained the basket, and thus, in a moment, loosened it from the button. Had the whole actually vanished into air, it could not have shot from my sight in a more abrupt and instantaneous manner. Positively, there could not have intervened the tenth part of a second between the disengagement of the basket and its absolute disappearance with all that it contained. My good wishes followed it to the earth, but, of course, I had no hope that either cat or kittens would ever live to tell the tale of their misfortune.

At six o'clock, I perceived a great portion of the earth's visible area to the eastward involved in thick shadow, which continued to advance with great rapidity, until, at five minutes before seven, the whole surface in view was enveloped in the darkness of night. It was not, however, until long after this time that the rays of the setting sun ceased to illumine the balloon; and this circumstance, although of course fully anticipated, did not fail to give me an infinite deal of pleasure. It was evident that, in the

morning, I should behold the rising luminary many hours at least before the citizens of Rotterdam, in spite of their situation so much farther to the eastward, and thus, day after day, in proportion to the height ascended, would I enjoy the light of the sun for a longer and a longer period. I now determined to keep a journal of my passage, reckoning the days from one to twenty-four hours continuously, without taking into consideration the intervals of darkness.

At ten o'clock, feeling sleepy, I determined to lie down for the rest of the night; but here a difficulty presented itself, which, obvious as it may appear, had escaped my attention up to the very moment of which I am now speaking. If I went to sleep as I proposed, how could the atmosphere in the chamber be regenerated in the *interim?* To breathe it for more than an hour, at the farthest, would be a matter of impossibility; or, if even this term could be extended to an hour and a quarter, the most ruinous consequences might ensue. The consideration of this dilemma gave me no little disquietude; and it will hardly be believed, that, after the dangers I had undergone, I should look upon this business in so serious a light, as to give up all hope of accomplishing my ultimate design, and finally make up my mind to the necessity of a descent. But this hesitation was only momentary. I reflected that man is the veriest slave of custom, and that many points in the routine of his existence are deemed *essentially* important, which are only so *at all* by his having rendered them habitual. It was very certain that I could not do without sleep; but I might easily bring myself to feel no inconvenience from being awakened at intervals of an hour during the whole period of my repose. It would require but five minutes at most, to regenerate the atmosphere in the fullest manner—

and the only real difficulty was, to contrive a method of arousing myself at the proper moment for so doing. But this was a question which, I am willing to confess, occasioned me no little trouble in its solution. To be sure, I had heard of the student who, to prevent his falling asleep over his books, held in one hand a ball of copper, the din of whose descent into a basin of the same metal on the floor beside his chair, served effectually to startle him up, if, at any moment, he should be overcome with drowsiness. My own case, however, was very different indeed, and left me no room for any similar idea; for I did not wish to keep awake, but to be aroused from slumber at regular intervals of time. I at length hit upon the following expedient, which, simple as it may seem, was hailed by me, at the moment of discovery, as an invention fully equal to that of the telescope, the steam-engine, or the art of printing itself.

It is necessary to premise, that the balloon, at the elevation now attained, continued its course upwards with an even and undeviating ascent, and the car consequently followed with a steadiness so perfect that it would have been impossible to detect in it the slightest vacillation. This circumstance favored me greatly in the project I now determined to adopt. My supply of water had been put on board in kegs containing five gallons each, and ranged very securely around the interior of the car. I unfastened one of these, and taking two ropes, tied them tightly across the rim of the wicker-work from one side to the other; placing them about a foot apart and parallel, so as to form a kind of shelf, upon which I placed the keg, and steadied it in a horizontal position. About eight inches immediately below these ropes, and four feet from the

bottom of the car, I fastened another shelf—but made of thin plank, being the only similar piece of wood I had. Upon this latter shelf, and exactly beneath one of the rims of the keg, a small earthen pitcher was deposited. I now bored a hole in the end of the keg over the pitcher, and fitted in a plug of soft wood, cut in a tapering or conical shape. This plug I pushed in or pulled out, as might happen, until, after a few experiments, it arrived at that exact degree of tightness, at which the water, oozing from the hole, and falling into the pitcher below, would fill the latter to the brim in the period of sixty minutes. This, of course, was a matter briefly and easily ascertained, by noticing the proportion of the pitcher filled in any given time. Having arranged all this, the rest of the plan is obvious. My bed was so contrived upon the floor of the car, as to bring my head, in lying down, immediately below the mouth of the pitcher. It was evident, that, at the expiration of an hour, the pitcher, getting full, would be forced to run over, and to run over at the mouth, which was somewhat lower than the rim. It was also evident, that the water, thus falling from a height of more than four feet, could not do otherwise than fall upon my face, and that the sure consequence would be, to waken me up instantaneously, even from the soundest slumber in the world.

It was fully eleven by the time I had completed these arrangements, and I immediately betook myself to bed, with full confidence in the efficiency of my invention. Nor in this matter was I disappointed. Punctually every sixty minutes was I aroused by my trusty chronometer, when, having emptied the pitcher into the bung-hole of the keg, and performed the duties of the condenser, I retired

again to bed. These regular interruptions to my slumber caused me even less discomfort than I had anticipated; and when I finally arose for the day, it was seven o'clock, and the sun had attained many degrees above the line of my horizon.

April 3d. I found the balloon at an immense height indeed, and the earth's convexity had now become strikingly manifest. Below me in the ocean lay a cluster of black specks, which undoubtedly were islands. Overhead, the sky was of a jetty black, and the stars were brilliantly visible; indeed they had been so constantly since the first day of ascent. Far away to the northward I perceived a thin, white, and exceedingly brilliant line, or streak, on the edge of the horizon, and I had no hesitation in supposing it to be the southern disc of the ices of the Polar sea. My curiosity was greatly excited, for I had hopes of passing on much farther to the north, and might possibly, at some period, find myself placed directly above the Pole itself. I now lamented that my great elevation would, in this case, prevent my taking as accurate a survey as I could wish. Much, however, might be ascertained.

Nothing else of an extraordinary nature occurred during the day. My apparatus all continued in good order, and the balloon still ascended without any perceptible vacillation. The cold was intense, and obliged me to wrap up closely in an overcoat. When darkness came over the earth, I betook myself to bed, although it was for many hours afterwards broad daylight all around my immediate situation. The water-clock was punctual in its duty, and I slept until next morning soundly, with the exception of the periodical interruption.

April 4th. Arose in good health and spirits, and was astonished at the singular change which had

taken place in the appearance of the sea. It had lost, in a great measure, the deep tint of blue it had hitherto worn, being now of a grayish-white, and of a lustre dazzling to the eye. The convexity of the ocean had become so evident, that the entire mass of the distant water seemed to be tumbling headlong over the abyss of the horizon, and I found myself listening on tiptoe for the echoes of the mighty cataract. The islands were no longer visible; whether they had passed down the horizon to the south-east, or whether my increasing elevation had left them out of sight, it is impossible to say. I was inclined, however, to the latter opinion. The rim of ice to the northward was growing more and more apparent. Cold by no means so intense. Nothing of importance occurred, and I passed the day in reading, having taken care to supply myself with books.

April 5th. Beheld the singular phenomenon of the sun rising while nearly the whole visible surface of the earth continued to be involved in darkness. In time, however, the light spread itself over all, and I again saw the line of ice to the northward. It was now very distinct and appeared of a much darker hue than the waters of the ocean. I was evidently approaching it, and with great rapidity. Fancied I could again distinguish a strip of land to the eastward, and one also to the westward, but could not be certain. Weather moderate. Nothing of any consequence happened during the day. Went early to bed.

April 6th. Was surprised at finding the rim of ice at a very moderate distance, and an immense field of the same material stretching away off to the horizon in the north. It was evident that if the balloon held its present course, it would soon arrive above

the Frozen Ocean, and I had now little doubt of ultimately seeing the Pole. During the whole of the day I continued to near the ice. Towards night the limits of my horizon very suddenly and materially increased, owing undoubtedly to the earth's form being that of an oblate spheroid, and my arriving above the flattened regions in the vicinity of the Arctic circle. When darkness at length overtook me, I went to bed in great anxiety, fearing to pass over the object of so much curiosity when I should have no opportunity of observing it.

April 7th. Arose early, and, to my great joy, at length beheld what there could be no hesitation in supposing the northern Pole itself. It was there, beyond a doubt, and immediately beneath my feet; but, alas! I had now ascended to so vast a distance, that nothing could with accuracy be discerned. Indeed, to judge from the progression of the numbers indicating my various altitudes, respectively, at different periods, between six, A. M., on the second of April, and twenty minutes before nine, A. M., of the same day, (at which time the barometer ran down,) it might be fairly inferred that the balloon had now, at four o'clock in the morning of April the seventh, reached a height of *not less*, certainly, than 7254 miles above the surface of the sea. This elevation may appear immense, but the estimate upon which it is calculated gave a result in all probability far inferior to the truth. At all events I undoubtedly beheld the whole of the earth's major diameter; the entire northern hemisphere lay beneath me like a chart orthographically projected; and the great circle of the equator itself formed the boundary line of my horizon. Your Excellencies may, however, readily imagine that the confined regions hitherto unexplored within the limits of the Arctic circle,

although situated directly beneath me, and therefore seen without any appearance of being foreshortened, were still, in themselves, comparatively too diminutive, and at too great a distance from the point of sight, to admit of any very accurate examination. Nevertheless, what could be seen was of a nature singular and exciting. Northwardly from that huge rim before mentioned, and which, with slight qualification, may be called the limit of human discovery in these regions, one unbroken, or nearly unbroken sheet of ice continues to extend. In the first few degrees of this its progress, its surface is very sensibly flattened, farther on depressed into a plane, and finally, becoming *not a little concave*, it terminates, at the Pole itself, in a circular centre, sharply defined, whose apparent diameter subtended at the balloon an angle of about sixty-five seconds, and whose dusky hue, varying in intensity, was, at all times darker than any other spot upon the visible hemisphere, and occasionally deepened into the most absolute blackness. Farther than this, little could be ascertained. By twelve o'clock the circular centre had materially decreased in circumference, and by seven, P. M., I lost sight of it entirely; the balloon passing over the western limb of the ice, and floating away rapidly in the direction of the equator.

April 8th. Found a sensible diminution in the earth's apparent diameter, besides a material alteration in its general color and appearance. The whole visible area partook in different degrees of a tint of pale yellow, and in some portions had acquired a brilliancy even painful to the eye. My view downwards was also considerably impeded by the dense atmosphere in the vicinity of the surface being loaded with clouds, between whose masses I

could only now and then obtain a glimpse of the earth itself. This difficulty of direct vision had troubled me more or less for the last forty-eight hours; but my present enormous elevation brought closer together, as it were, the floating bodies of vapor, and the inconvenience became, of course, more and more palpable in proportion to my ascent. Nevertheless, I could easily perceive that the balloon now hovered above the range of great lakes in the continent of North America, and was holding a course, due south, which would soon bring me to the tropics. This circumstance did not fail to give me the most heartfelt satisfaction, and I hailed it as a happy omen of ultimate success. Indeed, the direction I had hitherto taken, had filled me with uneasiness; for it was evident that had I continued it much longer, there would have been no possibility of my arriving at the moon at all, whose orbit is inclined to the ecliptic at only the small angle of 5° 8′ 48″. Strange as it may seem, it was only at this late period that I began to understand the great error I had committed, in not taking my departure from earth at some point *in the plane of the lunar ellipse*.

April 9th. To-day, the earth's diameter was greatly diminished, and the color of the surface assumed hourly a deeper tint of yellow. The balloon kept steadily on her course to the southward, and arrived, at nine, P. M., over the northern edge of the Mexican Gulf.

April 10th. I was suddenly aroused from slumber, about five o'clock this morning, by a loud, crackling, and terrific sound, for which I could in no manner account. It was of very brief duration, but, while it lasted, resembled nothing in the world of which I had any previous experience. It is needless to say that I became excessively alarmed, having, in the

first instance, attributed the noise to the bursting of the balloon. I examined all my apparatus, however, with great attention, and could discover nothing out of order. Spent a great part of the day in meditating upon an occurrence so extraordinary, but could find no means whatever of accounting for it. Went to bed dissatisfied, and in a state of great anxiety and agitation.

April 11th. Found a startling diminution in the apparent diameter of the earth, and a considerable increase, now observable for the first time, in that of the moon itself, which wanted only a few days of being full. It now required long and excessive labor to condense within the chamber sufficient atmospheric air for the sustenance of life.

April 12th. A singular alteration took place in regard to the direction of the balloon, and although fully anticipitated, afforded me the most unequivocal delight. Having reached, in its former course, about the twentieth parallel of southern latitude, it turned off suddenly, at an acute angle, to the eastward, and thus proceeded throughout the day, keeping nearly, if not altogether, *in the exact plane of the lunar ellipse.* What was worthy of remark, a very perceptible vacillation in the car was a consequence of this change of route,—a vacillation which prevailed, in a more or less degree, for a period of many hours.

April 13th. Was again very much alarmed by a repetition of the loud crackling noise which terrified me on the tenth. Thought long upon the subject, but was unable to form any satisfactory conclusion. Great decrease in the earth's apparent diameter, which now subtended from the balloon an angle of very little more than twenty-five degrees. The moon could not be seen at all, being nearly in my

zenith. I still continued in the plane of the ellipse, but made little progress to the eastward.

April 14th. Extremely rapid decrease in the diameter of the earth. To-day I became strongly impressed with the idea, that the balloon was now actually running up the line of apsides to the point of perigee,—in other words, holding the direct course which would bring it immediately to the moon in that part of its orbit the nearest to the earth. The moon itself was directly overheard, and consequently hidden from my view. Great and long continued labor necessary for the condensation of the atmosphere.

April 15th. Not even the outlines of continents and seas could now be traced upon the earth with distinctness. About twelve o'clock I became aware, for the third time, of that appalling sound which had so astonished me before. It now, however, continued for some moments, and gathered intensity as it continued. At length, while, stupefied and terror-stricken, I stood in expectation of I knew not what hideous destruction, the car vibrated with excessive violence, and a gigantic and flaming mass of some material which I could not distinguish, came with a voice of a thousand thunders, roaring and booming by the balloon. When my fears and astonishment had in some degree subsided, I had little difficulty in supposing it to be some mighty volcanic fragment ejected from that world to which I was so rapidly approaching, and, in all probability, one of that singular class of substances occasionally picked up on the earth, and termed meteoric stones for want of a better appellation.

April 16th. To-day, looking upwards as well as I could, through each of the side windows alternately, I beheld, to my great delight, a very small portion of

the moon's disk protruding, as it were, on all sides beyond the huge circumference of the balloon. My agitation was extreme; for I had now little doubt of soon reaching the end of my perilous voyage. Indeed, the labor now required by the condenser, had increased to a most oppressive degree, and allowed me scarcely any respite from exertion. Sleep was a matter nearly out of the question. I became quite ill, and my frame trembled with exhaustion. It was impossible that human nature could endure this state of intense suffering much longer. During the now brief interval of darkness a meteoric stone again passed in my vicinity, and the frequency of these phenomena began to occasion me much apprehension.

April 17th. This morning proved an epoch in my voyage. It will be remembered, that, on the thirteenth, the earth subtended an angular breadth of twenty-five degrees. On the fourteenth, this had greatly diminished; on the fifteenth, a still more rapid decrease was observable; and, on retiring for the night of the sixteenth, I had noticed an angle of no more than about seven degrees and fifteen minutes. What, therefore, must have been my amazement, on awakening from a brief and disturbed slumber, on the morning of this day, the seventeenth, at finding the surface beneath me so suddenly and wonderfully *augmented* in volume, as to subtend no less than thirty-nine degrees in apparent angular diameter! I was thunderstruck! No words can give any adequate idea of the extreme, the absolute horror and astonishment, with which I was seized, possessed, and altogether overwhelmed. My knees tottered beneath me—my teeth chattered —my hair started up on end. "The balloon, then, had actually burst!" These were the first tumultous ideas which hurried through my mind: "The balloon

had positively burst!—I was falling—falling with the most impetuous, the most unparalleled velocity! To judge from the immense distance already so quickly passed over, it could not be more than ten minutes, at the farthest, before I should meet the surface of the earth, and be hurled into annihilation!" But at length reflection came to my relief. I paused; I considered; and I began to doubt. The matter was impossible. I could not in any reason have so rapidly come down. Besides, although I was evidently approaching the surface below me, it was with a speed by no means commensurate with the velocity I had at first conceived. This consideration served to calm the perturbation of my mind, and I finally succeeded in regarding the phenomenon in its proper point of view. In fact, amazement must have fairly deprived me of my senses, when I could not see the vast difference, in appearance, between the surface below me, and the surface of my mother earth. The latter was indeed over my head, and completely hidden by the balloon, while the moon—the moon itself in all its glory—lay beneath me, and at my feet.

The stupor and surprise produced in my mind by this extraordinary change in the posture of affairs, was perhaps, after all, that part of the adventure least susceptible of explanation. For the *bouleversement* in itself was not only natural and inevitable, but had been long actually anticipated, as a circumstance to be expected whenever I should arrive at that exact point of my voyage where the attraction of the planet should be superseded by the attraction of the satellite—or, more precisely, where the gravitation of the balloon towards the earth should be less powerful than its gravitation towards the moon. To be sure I arose from a sound slumber, with all

my senses in confusion, to the contemplation of a very startling phenomenon, and one which, although expected, was not expected at the moment. The revolution itself must, of course, have taken place in an easy and gradual manner, and it is by no means clear that, had I even been awake at the time of the occurrence, I should have been made aware of it by any *internal* evidence of an inversion—that is to say, by any inconvenience or disarrangement, either about my person or about my apparatus.

It is almost needless to say, that, upon coming to a due sense of my situation, and emerging from the terror which had absorbed every faculty of my soul, my attention was, in the first place, wholly directed to the contemplation of the general physical appearance of the moon. It lay beneath me like a chart—and although I judged it to be still at no inconsiderable distance, the indentures of its surface were defined to my vision with a most striking and altogether unaccountable distinctness. The entire absence of ocean or sea, and indeed of any lake or river, or body of water whatsoever, struck me, at the first glance, as the most extraordinary feature in its geological condition. Yet, strange to say, I beheld vast level regions of a character decidedly alluvial, although by far the greater portion of the hemisphere in sight was covered with innumerable volcanic mountains, conical in shape, and having more the appearance of artificial than of natural protuberances. The highest among them does not exceed three and three-quarter miles in perpendicular elevation; but a map of the volcanic districts of the Campi Phlegræi would afford to your Excellencies a better idea of their general surface than any unworthy description I might think proper to attempt. The greater part of them were in a state of evident

eruption, and gave me fearfully to understand their fury and their power, by the repeated thunders of the mis-called meteoric stones, which now rushed upwards by the balloon with a frequency more and more appalling.

April 18th. To-day I found an enormous increase in the moon's apparent bulk—and the evidently accelerated velocity of my descent, began to fill me with alarm. It will be remembered, that, in the earliest stage of my speculations upon the possibility of a passage to the moon, the existence, in its vicinity, of an atmosphere dense in proportion to the bulk of the planet, had entered largely into my calculations; this too in spite of many theories to the contrary, and, it may added, in spite of a general disbelief in the existence of any lunar atmosphere at all. But, in addition to what I have already urged in regard to Encke's comet and the zodiacal light, I had been strengthened in my opinion by certain observations of Mr. Schroeter, of Lilienthal. He observed the moon, when two days and a half old, in the evening soon after sunset, before the dark part was visible, and continued to watch it until it became visible. The two cusps appeared tapering in a very sharp faint prolongation, each exhibiting its farthest extremity faintly illuminated by the solar rays, before any part of the dark hemisphere was visible. Soon afterwards, the whole dark limb became illuminated. This prolongation of the cusps beyond the semicircle, I thought, must have arisen from the refraction of the sun's rays by the moon's atmosphere. I computed, also, the height of the atmosphere (which could refract light enough into its dark hemisphere, to produce a twilight more luminous than the light reflected from the earth when the moon is about 32° from the new,) to be

1356 Paris feet; in this view, I supposed the greatest height capable of refracting the solar ray, to be 5376 feet. My ideas upon this topic had also received confirmation by a passage in the eighty-second volume of the Philosophical Transactions, in which it is stated, that, at an occultation of Jupiter's satellites, the third disappeared after having been about 1″ or 2″ of time indistinct, and the fourth became indiscernible near the limb.*

Upon the resistance, or more properly, upon the support of an atmosphere, existing in the state of density imagined, I had, of course, entirely depended for the safety of my ultimate descent. Should I then, after all, prove to have been mistaken, I had in consequence nothing better to expect, as a *finale* to my adventure, than being dashed into atoms against the rugged surface of the satellite. And, indeed, I had now every reason to be terrified. My distance from the moon was comparatively trifling, while the labor required by the condenser was diminished not at all, and I could discover no indication whatever of a decreasing rarity in the air.

April 19th. This morning, to my great joy, about nine o'clock, the surface of the moon being frightfully

* Hevelius writes that he has several times found, in skies perfectly clear, when even stars of the sixth and seventh magnitude were conspicuous, that, at the same altitude of the moon at the same elongation from the earth, and with one and the same excellent telescope, the moon and its maculæ did not appear equally lucid at all times. From the circumstances of the observation, it is evident that the cause of this phenomenon is not either in our air, in the tube, in the moon, or in the eye of the spectator, but must be looked for in something (an atmosphere?) existing about the moon.

Cassini frequently observed Saturn, Jupiter, and the fixed stars, when approaching the moon to occultation, to have their circular figure changed into an oval one; and, in other occultations, he found no alteration of figure at all. Hence it might be supposed, that *at some times*, and not at others, there is a dense matter encompassing the moon wherein the rays of the stars are refracted.

near, and my apprehensions excited to the utmost, the pump of my condenser at length gave evident tokens of an alteration in the atmosphere. By ten, I had reason to believe its density considerably increased. By eleven, very little labor was necessary at the apparatus; and at twelve o'clock, with some hesitation, I ventured to unscrew the *tourniquet*, when, finding no inconvenience from having done so, I finally threw open the gum-elastic chamber, and unrigged it from around the car. As might have been expected, spasms and violent headache were the immediate consequences of an experiment so precipitate and full of danger. But these and other difficulties attending respiration, as they were by no means so great as to put me in peril of my life, I determined to endure as I best could, in consideration of my leaving them behind me momently in my approach to the denser *strata* near the moon. This approach, however, was still impetuous in the extreme; and it soon became alarmingly certain that, although I had probably not been deceived in the expectation of an atmosphere dense in proportion to the mass of the satellite, still I had been wrong in supposing this density, even at the surface at all adequate to the support of the great weight contained in the car of my balloon. Yet this *should* have been the case, and in an equal degree as at the surface of the earth, the actual gravity of bodies at either planet supposed in the ratio of the atmospheric condensation. That it *was not* the case, however, my precipitous downfall gave testimony enough; *why* it was not so, can only be explained by a reference to those possible geological disturbances to which I have formerly alluded. At all events I was now close upon the planet, and coming down with the most terrible impetuosity. I lost not a moment, accordingly, in throwing over-

board first my ballast, then my water-kegs, then my condensing apparatus and gum-elastic chamber, and finally every article within the car. But it was all to no purpose. I still fell with horrible rapidity, and was now not more than half a mile from the surface. As a last resource, therefore, having got rid of my coat, hat, and boots, I cut loose from the balloon *the car itself*, which was of no inconsiderable weight, and thus, clinging with both hands to the net-work, I had barely time to observe that the whole country, as far as the eye could reach, was thickly interpersed with diminutive habitations, ere I tumbled headlong into the very heart of a fantastical-looking city, and into the middle of a vast crowd of ugly little people, who none of them uttered a single syllable, or gave themselves the least trouble to render me assistance, but stood, like a parcel of idiots, grinning in a ludicrous manner, and eyeing me and my balloon askant, with their arms set a-kimbo. I turned from them in contempt, and, gazing upwards at the earth so lately left, and left perhaps forever, beheld it like a huge, dull, copper shield, about two degrees in diameter, fixed immovably in the heavens overhead, and tipped on one of its edges with a crescent border of the most brilliant gold. No traces of land or water could be discovered, and the whole was clouded with variable spots, and belted with tropical and equatorial zones.

Thus, may it please your Excellencies, after a series of great anxieties, unheard-of dangers, and unparalleled escapes, I had, at length, on the nineteenth day of my departure from Rotterdam, arrived in safety at the conclusion of a voyage undoubtedly the most extraordinary, and the most momentous, ever accomplished, undertaken, or conceived by any denizen of earth. But my adven-

tures yet remain to be related. And indeed your Excellencies may well imagine that, after a residence of five years upon a planet not only deeply interesting in its own peculiar character, but rendered doubly so by its intimate connection, in capacity of satellite, with the world inhabited by man, I may have intelligence for the private ear of the States' College of Astronomers of far more importance than the details, however wonderful, of the mere *voyage* which so happily concluded. This is, in fact, the case. I have much—very much which it would give me the greatest pleasure to communicate. I have much to say of the climate of the planet; of its wonderful alternations of heat and cold; of unmitigated and burning sunshine for one fortnight, and more than polar frigidity for the next; of a constant transfer of moisture, by distillation like that *in vacuo*, from the point beneath the sun to the point the farthest from it; of a variable zone of running water; of the people themselves; of their manners, customs, and political institutions; of their peculiar physical construction; of their ugliness; of their want of ears, those useless appendages in an atmosphere so peculiarly modified; of their consequent ignorance of the use and properties of speech; of their substitute for speech in a singular method of inter-communication; of the incomprehensible connection between each particular individual in the moon, with some particular individual on the earth—a connection analogous with, and depending upon that of the orbs of the planet and the satellite, and by means of which the lives and destinies of the inhabitants of the one are interwoven with the lives and destinies of the inhabitants of the other; and above all, if it so please your Excellencies—above all of those dark and hideous mysteries which lie in the

Wogel inv sc

outer regions of the moon,—regions which, owing to the almost miraculous accordance of the satellite's rotation on its own axis with its sidereal revolution about the earth, have never yet been turned, and, by God's mercy, never shall be turned, to the scrutiny of the telescopes of man. All this, and more—much more—would I most willingly detail. But, to be brief, I must have my reward. I am pining for a return to my family and to my home; and as the price of any farther communications on my part—in consideration of the light which I have it in my power to throw upon many very important branches of physical and metaphysical science—I must solicit, through the influence of your honorable body, a pardon for the crime of which I have been guilty in the death of the creditors upon my departure from Rotterdam. This, then, is the object of the present paper. Its bearer, an inhabitant of the moon, whom I have prevailed upon, and properly instructed, to be my messenger to the earth, will await your Excellencies' pleasure, and return to me with the pardon in question, if it can, in any manner, be obtained.

I have the honor to be, &c., your Excellencies' very humble servant.

HANS PFAALL.

Upon finishing the perusal of this very extraordinary document, Professor Rubadub, it is said, dropped his pipe upon the ground in the extremity of his surprise, and Mynheer Superbus Von Underduk having taken off his spectacles, wiped them, and deposited them in his pocket, so far forgot both himself and his dignity, as to turn round three times upon his heel in the quintessence of astonishment and admiration. There was no doubt about the matter

—the pardon should be obtained. So at least swore, with a round oath, Professor Rubadub, and so finally thought the illustrious Von Underduk, as he took the arm of his brother in science, and without saying a word, began to make the best of his way home to deliberate upon the measure to be adopted. Having reached the door, however, of the burgomaster's dwelling, the professor ventured to suggest that as the messenger had thought proper to disappear—no doubt frightened to death by the savage appearance of the burghers of Rotterdam—the pardon would be of little use, as no one but a man of the moon would undertake a voyage to so vast a distance. To the truth of this observation the burgomaster assented, and the matter was therefore at an end. Not so, however, rumors and speculations. The letter, having been published, gave rise to a variety of gossip and opinion. Some of the over-wise even made themselves ridiculous by decrying the whole business as nothing better than a hoax. But hoax, with these sort of people, is, I believe, a general term for all matters above their comprehension. For my part, I cannot conceive upon what data they have founded such an accusation. Let us see what they say:

Imprimis. That certain wags in Rotterdam have certain especial antipathies to certain burgomasters and astronomers.

Secondly. That an odd little dwarf and bottle conjurer, both of whose ears, for some misdemeanor, have been cut off close to his head, has been missing for several days from the neighboring city of Bruges.

Thirdly. That the newspapers which were stuck all over the little balloon, were newspapers of Holland, and therefore could not have been made in the

moon. They were dirty papers—very dirty—and Gluck, the printer, would take his Bible oath to their having been printed in Rotterdam.

Fourthly. That Hans Pfaall himself, the drunken villain, and the three very idle gentlemen styled his creditors, were all seen, no longer than two or three days ago, in a tippling house in the suburbs, having just returned, with money in their pockets, from a trip beyond the sea.

Lastly. That it is an opinion very generally received, or which ought to be generally received, that the College of Astronomers in the city of Rotterdam, as well as all other colleges in all other parts of the world,—not to mention colleges and astronomers in general,—are, to say the least of the matter, not a whit better, nor greater, nor wiser than they ought to be.

NOTE.—Strictly speaking, there is but little similarity between the above sketchy trifle and the celebrated "Moon-Story" of Mr. Locke; but as both have the character of *hoaxes*, (although the one is in a tone of banter, the other of downright earnest,) and as both hoaxes are on the same subject, the moon—moreover, as both attempt to give plausibility by scientific detail—the author of "Hans Pfaall" thinks it necessary to say, *in self-defence*, that his own *jeu d'esprit* was published, in the "Southern Literary Messenger," about three weeks before the commencement of Mr. L's in the "New York Sun." Fancying a likeness which, perhaps, does not exist, some of the New York papers copied "Hans Pfaall," and collated it with the "Moon-Hoax," by way of detecting the writer of the one in the writer of the other.

As many more persons were actually gulled by the "Moon-Hoax" than would be willing to acknowledge the fact, it may here afford some little amusement to show why no one should have been deceived—to point out those particulars of the story which should have been sufficient to establish its real character. Indeed, however rich the imagination displayed in this ingenious fiction, it wanted

much of the force which might have been given it by a more scrupulous attention to facts and to general analogy. That the public were misled, even for an instant, merely proves the gross ignorance which is so generally prevalent upon subjects of an astronomical nature.

The moon's distance from the earth is, in round numbers, 240,000 miles. If we desire to ascertain how near, apparently, a lens would bring the satellite, (or any distant object,) we, of course, have but to divide the distance by the magnifying, or more strictly, by the space-penetrating power of the glass. Mr. L. makes his lens have a power of 42,000 times. By this divide 240,000 (the moon's real distance,) and we have five miles and five-sevenths, as the apparent distance. No animal at all could be seen so far; much less the minute points particularized in the story. Mr. L. speaks about Sir John Herschel's perceiving flowers (the Papaver rheas, &c.,) and even detecting the color and the shape of the eyes of small birds. Shortly before, too, he has himself observed that the lens would not render perceptible objects of less than eighteen inches in diameter; but even this, as I have said, is giving the glass by far too great power. It may be observed, in passing, that this prodigious glass is said to have been moulded at the glass-house of Messrs. Hartley and Grant, in Dumbarton; but Messrs. H. and G's establishment had ceased operations for many years previous to the publication of the hoax.

On page 13, pamphlet edition, speaking of "a hairy veil" over the eyes of a species of bison, the author says—"It immediately occurred to the acute mind of Dr. Herschel that this was a providential contrivance to protect the eyes of the animal from the great extremes of light and darkness to which all the inhabitants of our side of the moon are periodically subjected." But this cannot be thought a very "acute" observation of the Doctor's. The inhabitants of our side of the moon have, evidently, no darkness at all; so there can be nothing of the "extremes" mentioned. In the absence of the sun they have a light from the earth equal to that of thirteen full unclouded moons.

The topography throughout, even when professing to accord with Blunt's Lunar Chart, is entirely at variance with that or any other lunar chart, and even grossly at variance with itself. The points of the compass, too, are in inextricable confusion; the writer appearing to be ignorant that

on a lunar map, these are not in accordance with terrestrial points; the east being to the left, &c.

Deceived, perhaps, by the vague titles, *Mare Nubium*, *Mare Tranquillitatis*, *Mare Fœcunditatis*, &c., given to the dark spots by former astronomers, Mr. L. has entered into details regarding oceans and other large bodies of water in the moon; whereas there is no astronomical point more positively ascertained than that no such bodies exist there. In examining the boundary between light and darkness (in the crescent or gibbous moon) where this boundary crosses any of the dark places, the line of division is found to be rough and jagged; but, were these dark places liquid, it would evidently be even.

The description of the wings of the man-bat, on page 21, is but a literal copy of Peter Wilkins' account of the wings of his flying islanders. This simple fact should have induced suspicion, at least, it might be thought.

On page 23, we have the following: "What a prodigious influence must our thirteen times larger globe have exercised upon this satellite when an embryo in the womb of time, the passive subject of chemical affinity!" This is very fine; but it should be observed that no astronomer would have made such remark, especially to any Journal of Science; for the earth, in the sense intended, is not only thirteen, but forty-nine times *larger* than the moon. A similar objection applies to the whole of the concluding pages, where, by way of introduction to some discoveries in Saturn, the philosophical correspondent enters into a minute school boy account of that planet:—this to the Edinburgh Journal of Science!

But there is one point, in particular, which should have betrayed the fiction. Let us imagine the power actually possessed of seeing animals upon the moon's surface;—what would *first* arrest the attention of an observer from the earth? Certainly neither their shape, size, nor any other such peculiarity, so soon as their remarkable *situation*. They would appear to be walking, with heels up and head down, in the manner of flies on a ceiling. The *real* observer would have uttered an instant ejaculation of surprise (however prepared by previous knowledge) at the singularity of their position; the *fictitious* observer has not even mentioned the subject, but speaks of seeing the entire bodies of such creatures, when it is demonstrable that he could have seen only the diameter of their heads!

It might as well be remarked, in conclusion, that the size, and particularly the powers of the man-bats (for example, their ability to fly in so rare an atmosphere—if, indeed, the moon have any)—with most of the other fancies in regard to animal and vegetable existence, are at variance, generally, with all analogical reasoning on these themes; and that analogy here will often amount to conclusive demonstration. It is, perhaps, scarcely necessary to add, that all the suggestions attributed to Brewster and Herschel, in the beginning of the article, about "a transfusion of artificial light through the focal object of vision," &c., &c., belong to that species of figurative writing which come, most properly, under the denomination of rigmarole.

There is a real and very definite limit to optical discovery among the stars—a limit whose nature need only be stated to be understood. If, indeed, the casting of large lenses were all that is required, man's ingenuity would ultimately prove equal to the task, and we might have them of any size demanded. But, unhappily, in proportion to the increase of size in the lens, and, consequently, of space-penetrating power, is the diminution of light from the object, by diffusion of its rays. And for this evil there is no remedy within human ability; for an object is seen by means of that light alone which proceeds from itself, whether direct or reflected. Thus the only "*artificial*" light which could avail Mr. Locke, would be some artificial light which he should be able to throw—not upon the "focal object of vision," but upon the real object to be viewed—to wit: *upon the moon*. It has been easily calculated that, when the light proceeding from a star becomes so diffused as to be as weak as the natural light proceeding from the whole of the stars, in a clear and moonless night, then the star is no longer visible for any practical purpose.

The Earl of Ross telescope, lately constructed in England, has a *speculum* with a reflecting surface of 4071 square inches; the Herschel telescope having one of only 1811. The metal of the Earl of Ross' is 6 feet diameter; it is $5\frac{1}{2}$ inches thick at the edges, and 5 at the centre. The weight is 3 tons. The focal length is 50 feet.

I have lately read a singular and somewhat ingenious little book, whose title page runs thus:—"L'Homme dans la lvne, ou le Voyage Chimerique fait au Monde de la Lvne, nouuellement decouuert par Dominique Gonzales, Aduan-

turier Espagnol, autremét dit le Courier volant. Mis en notre langve par J. B. D. A. Paris, chez Francois Piot, pres la Fontaine de Saint Benoist. Et chez J. Goignard, au premier pilier de la grand' salle du Palais, proche les Consultations, MDCXLVIII." pp. 176.

The writer professes to have translated his work from the English of one Mr. D'Avisson (Davidson?) although there is a terrible ambiguity in the statement. "I'en ai eu," says he, "l'original de Monsieur D'Avisson, medecin des mieux versez qui soient aujourd'huy dans la cònoissance des Belles Lettres, et sur tout de la Philosophie Naturelle. Je lui ai cette obligation entre les autres, de m'auoir non seulement mis en main ce Livre en anglois, mais encore le Manuscrit du Sieur Thomas D'Anan, gentilhomme Eccossois, recommandable pour sa vertu, sur la version duquel j'advoue que j'ay tiré le plan de la mienne."

After some irrelevant adventures, much in the manner of Gil Blas, and which occupy the first thirty pages, the author relates that, being ill during a sea voyage, the crew abandoned him, together with a negro servant, on the island of St. Helena. To increase the chances of obtaining food, the two separate, and live as far apart as possible. This brings about a training of birds, to serve the purpose of carrier-pigeons between them. By and by these are taught to carry parcels of some weight—and this weight is gradually increased. At length the idea is entertained of uniting the force of a great number of the birds, with a view to raising the author himself. A machine is contrived for the purpose, and we have a minute description of it, which is materially helped out by a steel engraving. Here we perceive the Signor Gonzales, with point ruffles and a huge periwig, seated astride something which resembles very closely a broomstick, and borne aloft by a multitude of wild swans (*ganzas*) who had strings reaching from their tails to the machine.

The main event detailed in the Signor's narrative depends upon a very important fact, of which the reader is kept in ignorance until near the end of the book. The *ganzas*, with whom he had become so familiar, were not really denizens of St. Helena, but of the moon. Thence it had been their custom, time out of mind, to migrate annually to some portion of the earth. In proper season, of course they would return home; and the author, happening, one day,

to require their services for a short voyage, is unexpectedly carried straight up, and in a very brief period arrives at the satellite. Here he finds, among other odd things, that the people enjoy extreme happiness; that they have no *law;* that they die without pain; that they are from ten to thirty feet in height; that they live five thousand years; that they have an emperor called Irdonozur; and that they can jump sixty feet high, when being out of the gravitating influence, they fly about with fans.

I cannot forbear giving a specimen of the general *philosophy* of the volume.

"I must now declare to you," says the Signor Gonzales, "the nature of the place in which I found myself. All the clouds were beneath my feet, or, if you please, spread between me and the earth. As to the stars, *since there was no night where I was, they always had the same appearance; not brilliant as usual, but pale, and very nearly like the moon of a morning.* But few of them were visible, and these ten times larger (as well as I could judge,) than they seem to the inhabitants of the earth. The moon which wanted two days of being full, was of a terrible bigness.

"I must not forget here, that the stars appeared only on that side of the globe turned towards the moon, and that the closer they were to it the larger they seemed. I have also to inform you that, whether it was calm weather or stormy, I found myself *always immediately between the moon and the earth.* I was convinced of this for two reasons—because my birds always flew in a straight line; and because whenever we attempted to rest, *we were carried insensibly around the globe of the earth.* For I admit the opinion of Copernicus, who maintains that it never ceases to revolve *from the east to the west,* not upon the poles of the Equinoctial, commonly called the poles of the world, but upon those of the Zodiac, a question of which I propose to speak more at length hereafter, when I shall have leisure to refresh my memory in regard to the astrology which I learned at Salamanca when young, and have since forgotten. Notwithstanding the blunders italicised, the book is not without some claim to attention, as affording a naïve specimen of the current astronomical notions of the time. One of these assumed, that the "gravitating power" extended but a short distance from the earth's surface, and,

accordingly, we find our voyager "carried insensibly around the globe," &c.

There have been other "voyages to the moon," but none of higher merit than the one just mentioned. That of Bergerac is utterly meaningless. In the third volume of the "American Quarterly Review" will be found quite an elaborate criticism upon a certain "Journey" of the kind in question:—a criticism in which it is difficult to say whether the critic most exposes the stupidity of the book, or his own absurd ignorance of astronomy. I forget the title of the work; but the *means* of the voyage are more deplorably ill conceived than are even the *ganzas* of our friend the Signor Gonzales. The adventurer, in digging the earth, happens to discover a peculiar metal for which the moon has a strong attraction, and straightway constructs of it a box, which, when cast loose from its terrestrial fastenings, flies with him, forthwith, to the satellite. The "Flight of Thomas O'Rourke," is a *jeu d'esprit* not altogether contemptible, and has been translated into German. Thomas, the hero, was, in fact, the game-keeper of an Irish peer, whose eccentricities gave rise to the tale. The "flight" is made on an eagle's back, from Hungry Hill, a lofty mountain at the end of Bantry Bay.

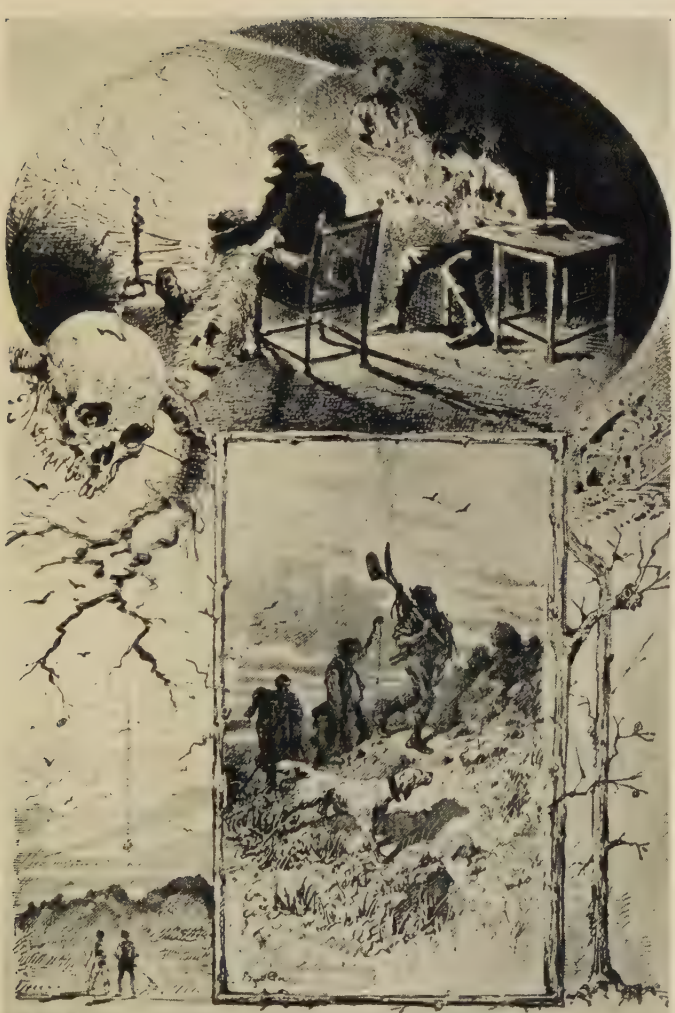
In these various *brochures* the aim is always satirical; the theme being a description of Lunarian customs as compared with ours. In none, is there any effort at *plausibility* in the details of the voyage itself. The writers seem, in each instance, to be utterly uninformed in respect to astronomy. In "Hans Pfaall" the design is original, inasmuch as regards an attempt at *verisimilitude*, in the application of scientific principles (so far as the whimsical nature of the subject would permit,) to the actual passage between the earth and the moon.

THE GOLD BUG

What ho! what ho! this fellow is dancing mad!
He hath been bitten by the Tarantula.
All in the Wrong.

MANY years ago, I contracted an intimacy with a Mr. William Legrand. He was of an ancient Huguenot family, and had once been wealthy; but a series of misfortunes had reduced him to want. To avoid the mortification consequent upon his disasters, he left New Orleans, the city of his forefathers, and took up his residence at Sullivan's Island, near Charleston, South Carolina.

This Island is a very singular one. It consists of little else than the sea sand, and is about three miles long. Its breadth at no point exceeds a quarter of a mile. It is separated from the main land by a scarcely perceptible creek, oozing its way through a wilderness of reeds and slime, a favorite resort of the marsh hen. The vegetation, as might be supposed, is scant, or at least dwarfish. No trees of any magnitude are to be seen. Near the western extremity, where Fort Moultrie stands, and where are some miserable frame buildings, tenanted, during summer, by the fugitives from Charleston dust and fever, may be found, indeed, the bristly palmetto; but the whole island, with the exception of this western point, and a line of hard, white beach on the seacoast, is covered with a dense undergrowth of the sweet myrtle, so much prized by the horticulturists of England. The shrub here often attains the height of fifteen or



Ferat del

THE GOLD BUG

twenty feet, and forms an almost impenetrable coppice, burthening the air with its fragrance.

In the inmost recesses of this coppice, not far from the eastern or more remote end of the island, Legrand had built himself a small hut, which he occupied when I first, by mere accident, made his acquaintance. This soon ripened into friendship—for there was much in the recluse to excite interest and esteem. I found him well educated, with unusual powers of mind, but infected with misanthropy, and subject to perverse moods of alternate enthusiasm and melancholy. He had with him many books, but rarely employed them. His chief amusements were gunning and fishing, or sauntering along the beach and through the myrtles, in quest of shells or entomological specimens;—his collection of the latter might have been envied by a Swammerdamm. In these excursions he was usually accompanied by an old negro, called Jupiter, who had been manumitted before the reverses of the family, but who could be induced, neither by threats nor by promises, to abandon what he considered his right of attendance upon the footsteps of his young "Massa Will." It is not improbable that the relatives of Legrand, conceiving him to be somewhat unsettled in intellect, had contrived to instil this obstinacy into Jupiter, with a view to the supervision and guardianship of the wanderer.

The winters in the latitude of Sullivan's Island are seldom very severe, and in the fall of the year it is a rare event indeed when a fire is considered necessary. About the middle of October, 18—, there occurred, however, a day of remarkable chilliness. Just before sunset I scrambled my way through the evergreens to the hut of my friend, whom

I had not visited for several weeks—my residence being, at that time, in Charleston, a distance of nine miles from the Island, while the facilities of passage and re-passage were very far behind those of the present day. Upon reaching the hut I rapped, as was my custom, and getting no reply, sought for the key where I knew it was secreted, unlocked the door and went in. A fine fire was blazing upon the hearth. It was a novelty, and by no means an ungrateful one. I threw off an overcoat, took an armchair by the crackling logs, and awaited patiently the arrival of my hosts.

Soon after dark they arrived, and gave me a most cordial welcome. Jupiter, grinning from ear to ear, bustled about to prepare some marsh-hens for supper. Legrand was in one of his fits—how else shall I term them?—of enthusiasm. He had found an unknown bivalve, forming a new genus, and, more than this, he had hunted down and secured, with Jupiter's assistance, a *scarabœus* which he believed to be totally new, but in respect to which he wished to have my opinion on the morrow.

"And why not to-night?" I asked, rubbing my hands over the blaze, and wishing the whole tribe of *scarabœi* at the devil.

"Ah, if I had only known you were here!" said Legrand, "but it's so long since I saw you; and how could I foresee that you would pay me a visit this very night of all others? As I was coming home I met Lieutenant G——, from the fort, and, very foolishly, I lent him the bug; so it will be impossible for you to see it until the morning. Stay here to-night, and I will send Jup down for it at sunrise. It is the loveliest thing in creation!"

"What?—sunrise?"

"Nonsense! no!—the bug. It is of a brilliant

gold color—about the size of a large hickory-nut—with two jet black spots near one extremity of the back, and another, somewhat longer, at the other. The *antennæ* are—"

"Dey aint *no* tin in him, Massa Will, I keep a tellin on you," here interrupted Jupiter; "de bug is a goole bug, solid, ebery bit of him, inside and all, sep him wing—neber feel half so hebby a bug in my life."

"Well, suppose it is, Jup," replied Legrand, somewhat more earnestly, it seemed to me, than the case demanded, "is that any reason for your letting the birds burn? The color"—here he turned to me—"is really almost enough to warrant Jupiter's idea. You never saw a more brilliant metallic lustre than the scales emit—but of this you cannot judge till to-morrow. In the mean time I can give you some idea of the shape." Saying this, he seated himself at a small table, on which were a pen and ink, but no paper. He looked for some in a drawer, but found none.

"Never mind," said he at length, "this will answer;" and he drew from his waistcoat pocket a scrap of what I took to be very dirty foolscap, and made upon it a rough drawing with the pen. While he did this, I retained my seat by the fire, for I was still chilly. When the design was complete, he handed it to me without rising. As I received it, a loud growl was heard, succeeded by a scratching at the door. Jupiter opened it, and a large Newfoundland, belonging to Legrand, rushed in, leaped upon my shoulders, and loaded me with caresses; for I had shown him much attention during previous visits. When his gambols were over, I looked at the paper, and, to speak the truth, found myself not a little puzzled at what my friend had depicted.

"Well!" I said, after contemplating it for some minutes, "this *is* a strange *scarabæus*, I must confess: new to me: never saw anything like it before—unless it was a skull, or a death's-head—which it more nearly resembles than anything else that has come under *my* observation."

"A death's-head!" echoed Legrand—"Oh—yes—well, it has something of that appearance upon paper, no doubt. The two upper black spots look like eyes, eh? and the longer one at the bottom like a mouth—and then the shape of the whole is oval."

"Perhaps so," said I; "but, Legrand, I fear you are no artist. I must wait until I see the beetle itself, if I am to form any idea of its personal appearance."

"Well, I don't know," said he, a little nettled, "I draw tolerably—*should* do it at least—have had good masters, and flatter myself that I am not quite a blockhead."

"But, my dear fellow, you are joking then," said I, "this is a very passable *skull*—indeed, I may say that it is a very *excellent* skull, according to the vulgar notions about such specimens of physiology—and your *scarabæus* must be the queerest *scarabæus* in the world if it resembles it. Why, we may get up a very thrilling bit of superstition upon this hint. I presume you will call the bug *scarabæus caput hominis*, or something of that kind—there are many similar titles in the Natural Histories. But where are the *antennæ* you spoke of?"

"The *antennæ!*" said Legrand, who seemed to be getting unaccountably warm upon the subject; "I am sure you must see the *antennæ*. I made them as distinct as they are in the original insect, and I presume that is sufficient."

"Well, well," I said, "perhaps you have—still

I don't see them;" and I handed him the paper without additional remark, not wishing to ruffle his temper; but I was much surprised at the turn affairs had taken; his ill humor puzzled me—and, as for the drawing of the beetle, there were positively *no antennæ* visible, and the whole *did* bear a very close resemblance to the ordinary cuts of a death's-head.

He received the paper very peevishly, and was about to crumple it, apparently to throw it in the fire, when a casual glance at the design seemed suddenly to rivet his attention. In an instant his face grew violently red—in another as excessively pale. For some minutes he continued to scrutinize the drawing minutely where he sat. At length he arose, took a candle from the table, and proceeded to seat himself upon a sea-chest in the farthest corner of the room. Here again he made an anxious examination of the paper; turning it in all directions. He said nothing, however, and his conduct greatly astonished me; yet I thought it prudent not to exacerbate the growing moodiness of his temper by any comment. Presently he took from his coat pocket a wallet, placed the paper carefully in it, and deposited both in a writing-desk, which he locked. He now grew more composed in his demeanor; but his original air of enthusiasm had quite disappeared. Yet he seemed not so much sulky as abstracted. As the evening wore away he became more and more absorbed in reverie, from which no sallies of mine could arouse him. It had been my intention to pass the night at the hut, as I had frequently done before, but, seeing my host in this mood, I deemed it proper to take leave. He did not press me to remain, but, as I departed, he shook my hand with even more than his usual cordiality.

It was about a month after this (and during the interval I had seen nothing of Legrand) when I received a visit, at Charleston, from his man, Jupiter. I had never seen the good old negro look so dispirited, and I feared that some serious disaster had befallen my friend.

"Well, Jup," said I, "what is the matter now?—how is your master?"

"Why, to speak de troof, massa, him not so berry well as mought be."

"Not well! I am truly sorry to hear it. What does he complain of?"

"Dar! dat's it!—him neber plain of notin—but him berry sick for all dat."

"*Very* sick, Jupiter!—why didn't you say so at once? Is he confined to bed?"

"No, dat he aint!—he aint find nowhar—dat's just whar de shoe pinch—my mind is got to be berry hebby bout poor Massa Will."

"Jupiter, I should like to understand what it is you are talking about. You say your master is sick. Hasn't he told you what ails him?"

"Why, massa, taint worf while for to git mad about de matter—Massa Will say noffin at all aint de matter wid him—but den what make him go about looking dis here way, wid he head down and he soldiers up, and as white as a gose? And den he keep a syphon all de time—"

"Keeps a what, Jupiter?"

"Keeps a syphon wid de figgurs on de slate—de queerest figgurs I ebber did see. Ise gittin to be skeered, I tell you. Hab for to keep mighty tight eye pon him noovers. Todder day he gib me slip forc de sun up and was gone de whole ob de blessed day. I had a big stick ready cut for to gib him deuced good beating when he did come—but Ise

sich a fool dat I hadn't de heart arter all—he look so berry poorly."

"Eh?—what?—ah yes!—upon the whole I think you had better not be too severe with the poor fellow—don't flog him, Jupiter—he can't very well stand it—but can you form no idea of what has occasioned this illness, or rather this change of conduct? Has anything unpleasant happened since I saw you?"

"No, massa, dey aint bin noffin onpleasant *since* den—'twas *fore* den I'm feared—'twas de berry day you was dare."

"How? what do you mean?"

"Why, massa, I mean de bug—dare now."

"The what?"

"De bug—I'm berry sartain dat Massa Will bin bit somewhere bout de head by dat goole-bug."

"And what cause have you, Jupiter, for such a supposition?"

"Claws enuff, massa, and mouff too. I nebber did see sich a deuced bug—he kick and he bite ebery ting what cum near him. Massa Will cotch him fuss, but had for to let him go gin mighty quick, I tell you—den was de time he must ha got de bite. I didn't like de look ob de bug mouff, myself, no how, so I would n't take hold ob him wid my finger, but I cotch him wid a piece ob paper dat I found. I rap him up in de paper and stuff piece ob it in he mouff—dat was de way."

"And you think, then, that your master was really bitten by the beetle, and that the bite made him sick?"

"I do n't tink noffin about it—I nose it. What make him dream bout de goole so much, if taint cause he bit by de goole-bug? Ise heerd bout dem goole-bugs fore dis."

"But how do you know he dreams about gold?"

"How I know? why cause he talk about it in he sleep—dat's how I nose."

"Well, Jup, perhaps you are right; but to what fortunate circumstance am I to attribute the honor of a visit from you to-day?"

"What de matter, massa?"

"Did you bring any message from Mr. Legrand?"

"No, massa, I bring dis here pissel;" and here Jupiter handed me a note which ran thus:

My Dear ——

Why have I not seen you for so long a time? I hope you have not been so foolish as to take offence at any little *brusquerie* of mine; but no, that is improbable.

Since I saw you I have had great cause for anxiety. I have something to tell you, yet scarcely know how to tell it, or whether I should tell it at all.

I have not been quite well for some days past, and poor old Jup annoys me, almost beyond endurance, by his well-meant attentions. Would you believe it?—he had prepared a huge stick, the other day, with which to chastise me for giving him the slip, and spending the day, *solus*, among the hills on the main land. I verily believe that my ill looks alone saved me a flogging.

I have made no addition to my cabinet since we met.

If you can, in any way, make it convenient, come over with Jupiter. *Do* come. I wish to see you *to-night*, upon business of importance. I assure you that it is of the *highest* importance.

Ever yours, William Legrand.

There was something in the tone of this note which gave me great uneasiness. Its whole style

differed materially from that of Legrand What could he be dreaming of? What new crotchet possessed his excitable brain? What "business of the highest importance" could *he* possibly have to transact? Jupiter's account of him boded no good. I dreaded lest the continued pressure of misfortune had, at length, fairly unsettled the reason of my friend. Without a moment's hesitation, therefore, I prepared to accompany the negro.

Upon reaching the wharf, I noticed a scythe and three spades, all apparently new, lying in the bottom of the boat in which we were to embark.

"What is the meaning of all this, Jup?" I inquired.

"Him syfe, massa, and spade."

"Very true; but what are they doing here?"

"Him de syfe and de spade what Massa Will sis pon my buying for him in de town, and de debbils own lot of money I had to gib for em."

"But what, in the name of all that is mysterious, is your 'Massa Will' going to do with scythes and spades?"

"Dat's more dan *I* know, and debbil take me if I don't blieve 'tis more dan he know, too. But it's all cum ob de bug."

Finding that no satisfaction was to be obtained of Jupiter, whose whole intellect seemed to be absorbed by "de bug," I now stepped into the boat and made sail. With a fair and strong breeze we soon ran into the little cove to the northward of Fort Moultrie, and a walk of some two miles brought us to the hut. It was about three in the afternoon when we arrived. Legrand had been awaiting us in eager expectation. He grasped my hand with a nervous *empressement* which alarmed me and strengthened the suspicions already entertained. His countenance was pale even to ghastliness, and his deep-

set eyes glared with unnatural lustre. After some inquiries respecting his health, I asked him, not knowing what better to say, if he had yet obtained the *scarabæus* from Lieutenant G——.

"Oh, yes," he replied, coloring violently, "I got it from him the next morning. Nothing should tempt me to part with that *scarabæus*. Do you know that Jupiter is quite right about it?"

"In what way?" I asked, with a sad foreboding at heart.

"In supposing it to be a bug of *real gold*." He said this with an air of profound seriousness, and I felt inexpressibly shocked.

"This bug is to make my fortune," he continued, with a triumphant smile, "to reinstate me in my family possessions. Is it any wonder, then, that I prize it? Since Fortune has thought fit to bestow it upon me, I have only to use it properly and I shall arrive at the gold of which it is the index. Jupiter, bring me that *scarabæus!*"

"What! de bug, massa? I'd rudder not go fer trubble dat bug—you mus git him for your own self." Hereupon Legrand arose, with a grave and stately air, and brought me the beetle from a glass case in which it was enclosed. It was a beautiful *scarabæus*, and, at that time, unknown to naturalists —of course a great prize in a scientific point of view. There were two round, black spots near one extremity of the back, and a long one near the other. The scales were exceedingly hard and glossy, with all the appearance of burnished gold. The weight of the insect was very remarkable, and, taking all things into consideration, I could hardly blame Jupiter for his opinion respecting it; but what to make of Legrand's concordance with that opinion, I could not, for the life of me, tell.

"I sent for you," said he, in a grandiloquent tone, when I had completed my examination of the beetle, "I sent for you, that I might have your counsel and assistance in furthering the views of Fate and of the bug"—

"My dear Legrand," I cried, interrupting him, "you are certainly unwell, and had better use some little precautions. You shall go to bed, and I will remain with you a few days, until you get over this. You are feverish and"—

"Feel my pulse," said he.

I felt it, and, to say the truth, found not the slightest indication of fever.

"But you may be ill and yet have no fever. Allow me this once to prescribe for you. In the first place, go to bed. In the next"—

"You are mistaken," he interposed, "I am as well as I can expect to be under the excitement which I suffer. If you really wish me well, you will relieve this excitement."

"And how is this to be done?"

"Very easily. Jupiter and myself are going upon an expedition into the hills, upon the main land, and, in this expedition, we shall need the aid of some person in whom we can confide. You are the only one we can trust. Whether we succeed or fail, the excitement which you now perceive in me will be equally allayed."

"I am anxious to oblige you in any way," I replied; "but do you mean to say that this infernal beetle has any connection with your expedition into the hills?"

"It has."

"Then, Legrand, I can become a party to no such absurd proceeding."

"I am sorry—very sorry—for we shall have to try it by ourselves."

"Try it by yourselves! The man is surely mad!—but stay!—how long do you propose to be absent?"

"Probably all night. We shall start immediately, and be back, at all events, by sunrise."

"And will you promise me, upon your honor, that when this freak of yours is over, and the bug business (good God!) settled to your satisfaction, you will then return home and follow my advice implicitly, as that of your physician?"

"Yes; I promise; and now let us be off, for we have no time to lose."

With a heavy heart I accompanied my friend. We started about four o'clock—Legrand, Jupiter, the dog, and myself. Jupiter had with him the scythe and spades—the whole of which he insisted upon carrying—more through fear, it seemed to me, of trusting either of the implements within reach of his master, than from any excess of industry or complaisance. His demeanor was dogged in the extreme, and "dat deuced bug" were the sole words which escaped his lips during the journey. For my own part, I had charge of a couple of dark lanterns, while Legrand contented himself with the *scarabæus*, which he carried attached to the end of a bit of whip-cord; twirling it to and fro, with the air of a conjuror, as he went. When I observed this last, plain evidence of my friend's aberration of mind, I could scarcely refrain from tears. I thought it best, however, to humor his fancy, at least for the present, or until I could adopt some more energetic measures with a chance of success. In the mean time I endeavored, but all in vain, to sound him in regard to the object of the expedition. Having succeeded in inducing me to accompany him, he seemed unwilling to hold conversation upon any topic of minor importance, and to all my

questions vouchsafed no other reply than "we shall see!"

We crossed the creek at the head of the island by means of a skiff, and ascending the high grounds on the shore of the main land, proceeded in a northwesterly direction, through a tract of country excessively wild and desolate, where no trace of a human foot-step was to be seen. Legrand led the way with decision; pausing only for an instant, here and there, to consult what appeared to be certain landmarks of his own contrivance upon a former occasion.

In this manner we journeyed for about two hours, and the sun was just setting when we entered a region infinitely more dreary than any yet seen. It was a species of table land, near the summit of an almost inaccessible hill, densely wooded from base to pinnacle, and interspersed with huge crags that appeared to lie loosely upon the soil, and in many cases were prevented from precipitating themselves into the valleys below, merely by the support of the trees against which they reclined. Deep ravines, in various directions, gave an air of still sterner solemnity to the scene.

The natural platform to which we had clambered was thickly overgrown with brambles, through which we soon discovered that it would have been impossible to force our way but for the scythe; and Jupiter, by direction of his master, proceeded to clear for us a path to the foot of an enormously tall tulip-tree, which stood, with some eight or ten oaks, upon the level, and far surpassed them all, and all other trees which I had then ever seen, in the beauty of its foliage and form, in the wide spread of its branches, and in the general majesty of its appearance. When we reached this tree, Legrand turned to Jupiter, and asked him if he thought he could

climb it. The old man seemed a little staggered by the question, and for some moments made no reply. At length he approached the huge trunk, walked slowly around it, and examined it with minute attention. When he had completed his scrutiny, he merely said,

"Yes, massa, Jup climb any tree he ebber see in he life."

"Then up with you as soon as possible, for it will soon be too dark to see what we are about."

"How far mus go up, massa?" inquired Jupiter.

"Get up the main trunk first, and then I will tell you which way to go—and here—stop! take this beetle with you."

"De bug, Massa Will!—de goole bug!" cried the negro, drawing back in dismay—"what for mus tote de bug way up de tree?—d—n if I do!"

"If you are afraid, Jup, a great big negro like you, to take hold of a harmless little dead beetle, why you can carry it up by this string—but, if you do not take it up with you in some way, I shall be under the necessity of breaking your head with this shovel."

"What de matter now, massa?" said Jup, evidently shamed into compliance; "always want for to raise fuss wid old nigger. Was only funnin any how. *Me* feered de bug! what I keer for de bug?" Here he took cautiously hold of the extreme end of the string, and, maintaining the insect as far from his person as circumstances would permit, prepared to ascend the tree.

In youth, the tulip-tree, or *Liriodendron Tulipiferum*, the most magnificent of American foresters, has a trunk peculiarly smooth, and often rises to a great height without lateral branches; but, in its riper age, the bark becomes gnarled and uneven,

while many short limbs make their appearance on the stem. Thus the difficulty of ascension, in the present case, lay more in semblance than in reality. Embracing the huge cylinder, as closely as possible, with his arms and knees, seizing with his hands some projections, and resting his naked toes upon others, Jupiter, after one or two narrow escapes from falling, at length wriggled himself into the first great fork, and seemed to consider the whole business as virtually accomplished. The *risk* of the achievement was, in fact, now over, although the climber was some sixty or seventy feet from the ground.

"Which way mus go now, Massa Will?" he asked.

"Keep up the largest branch—the one on this side," said Legrand. The negro obeyed him promptly, and apparently with but little trouble; ascending higher and higher, until no glimpse of his squat figure could be obtained through the dense foliage which enveloped it. Presently his voice was heard in a sort of halloo.

"How much fudder is got for go?"

"How high up are you?" asked Legrand.

"Ebber so fur," replied the negro; "can see de sky fru de top ob de tree."

"Never mind the sky, but attend to what I say. Look down the trunk and count the limbs below you on this side. How many limbs have you passed?"

"One, two, tree, four, fibe—I done pass fibe big limb, massa, pon dis side."

"Then go one limb higher."

In a few minutes the voice was heard again, announcing that the seventh limb was attained.

"Now, Jup," cried Legrand, evidently much excited, "I want you to work your way out upon

that limb as far as you can. If you see anything strange, let me know."

By this time what little doubt I might have entertained of my poor friend's insanity, was put finally at rest. I had no alternative but to conclude him stricken with lunacy, and I became seriously anxious about getting him home. While I was pondering upon what was best to be done, Jupiter's voice was again heard.

"Mos feerd for to ventur pon dis limb berry far—tis dead limb putty much all de way."

"Did you say it was a *dead* limb, Jupiter?" cried Legrand in a quavering voice.

"Yes, massa, him dead as de door-nail—done up for sartain—done departed dis here life."

"What in the name of heaven shall I do?" asked Legrand, seemingly in the greatest distress.

"Do!" said I, glad of an opportunity to interpose a word, "why come home and go to bed. Come now!—that's a fine fellow. It's getting late, and, besides, you remember your promise."

"Jupiter," cried he, without heeding me in the least, "do you hear me?"

"Yes, Massa Will, hear you ebber so plain."

"Try the wood well, then, with your knife, and see if you think it *very* rotten."

"Him rotten, massa, sure nuff," replied the negro in a few moments, "but not so berry rotten as mought be. Mought ventur out leetle way pon de limb by myself, dat's true."

"By yourself!—what do you mean?"

"Why I mean de bug. 'Tis *berry* hebby bug. Spose I drop him down fuss, and den de limb won't break wid just de weight ob one nigger."

"You infernal scoundrel!" cried Legrand, apparently much relieved, "what do you mean by telling

Herpin inv

THE GOLD BUG

me such nonsense as that? As sure as you drop that beetle I'll break your neck. Look here, Jupiter, do you hear me?"

"Yes, massa, needn't hollo at poor nigger dat style."

"Well! now listen!—if you will venture out on the limb as far as you think safe, and not let go the beetle, I'll make you a present of a silver dollar as soon as you get down."

"I'm gwine, Massa Will—deed I is," replied the negro very promptly—"mos out to the eend now."

"*Out to the end!*" here fairly screamed Legrand, "do you say you are out to the end of that limb?"

"Soon be to de eend, massa,—o-o-o-o-oh! Lor-gol-a-marcy! what *is* dis here pon de tree?"

"Well!" cried Legrand, highly delighted, "what is it?"

"Why taint noffin but a skull—somebody bin lef him head up de tree, and de crows done gobble ebery bit ob de meat off."

"A skull, you say!—very well!—how is it fastened to the limb?—what holds it on?"

"Sure nuff, massa; mus look. Why dis berry curous sarcumstance, pon my word—dare's a great big nail in de skull, what fastens ob it on to de tree."

"Well now, Jupiter, do exactly as I tell you—do you hear?"

"Yes, massa."

"Pay attention, then!—find the left eye of the skull."

"Hum! hoo! dat's good! why dare aint no eye lef at all."

"Curse your stupidity! do you know your right hand from your left?"

"Yes, I nose dat—nose all bout dat—tis my lef hand what I chops de wood wid."

"To be sure! you are left-handed; and your left eye is on the same side as your left hand. Now, I suppose, you can find the left eye of the skull, or the place where the left eye has been. Have you found it?"

Here was a long pause. At length the negro asked,

"Is de lef eye of de skull pon de same side as de lef hand of de skull, too?—cause de skull aint got not a bit ob a hand at all—nebber mind! I got de lef eye now—here de lef eye! what mus do wid it?"

"Let the beetle drop through it, as far as the string will reach—but be careful and not let go your hold of the string."

"All dat done, Massa Will; mighty easy ting for to put de bug fru de hole—look out for him dare below!"

During this colloquy no portion of Jupiter's person could be seen; but the beetle, which he had suffered to descend, was now visible at the end of the string, and glistened, like a globe of burnished gold, in the last rays of the setting sun, some of which still faintly illumined the eminence upon which we stood. The *scarabæus* hung quite clear of any branches, and, if allowed to fall, would have fallen at our feet. Legrand immediately took the scythe, and cleared with it a circular space, three or four yards in diameter, just beneath the insect and, having accomplished this, ordered Jupiter to let go the string and come down from the tree.

Driving a peg, with great nicety, into the ground, at the precise spot where the beetle fell, my friend now produced from his pocket a tape-measure. Fastening one end of this at that point of the trunk of the tree which was nearest the peg, he unrolled it till it reached the peg, and thence farther unrolled it, in the direction already established by the two

points of the tree and the peg, for the distance of fifty feet—Jupiter clearing away the brambles with the scythe. At the spot thus attained a second peg was driven, and about this, as a centre, a rude circle, about four feet in diameter, described. Taking now a spade himself, and giving one to Jupiter and one to me, Legrand begged us to set about digging as quickly as possible.

To speak the truth, I had no especial relish for such amusement at any time, and, at that particular moment, would most willingly have declined it; for the night was coming on, and I felt much fatigued with the exercise already taken; but I saw no mode of escape, and was fearful of disturbing my poor friend's equanimity by a refusal. Could I have depended, indeed, upon Jupiter's aid, I would have had no hesitation in attempting to get the lunatic home by force; but I was too well assured of the old negro's disposition, to hope that he would assist me, under any circumstances, in a personal contest with his master. I made no doubt that the latter had been infected with some of the innumerable Southern superstitions about money buried, and that his phantasy had received confirmation by the finding of the *scarabæus*, or, perhaps, by Jupiter's obstinacy in maintaining it to be "a bug of real gold." A mind disposed to lunacy would readily be led away by such suggestions—especially if chiming in with favorite preconceived ideas—and then I called to mind the poor fellow's speech about the beetle's being "the index of his fortune." Upon the whole, I was sadly vexed and puzzled, but, at length, I concluded to make a virtue of necessity—to dig with a good will, and thus the sooner to convince the visionary, by ocular demonstration, of the fallacy of the opinions he entertained.

The lanterns having been lit, we all fell to work with a zeal worthy a more rational cause; and, as the glare fell upon our persons and implements, I could not help thinking how picturesque a group we composed, and how strange and suspicious our labors must have appeared to any interloper who, by chance, might have stumbled upon our whereabouts.

We dug very steadily for two hours. Little was said; and our chief embarrassment lay in the yelpings of the dog, who took exceeding interest in our proceedings. He, at length, became so obstreperous that we grew fearful of his giving the alarm to some stragglers in the vicinity;—or, rather, this was the apprehension of Legrand;—for myself, I should have rejoiced at any interruption which might have enabled me to get the wanderer home. The noise was, at length, very effectually silenced by Jupiter, who, getting out of the hole with a dogged air of deliberation, tied the brute's mouth up with one of his suspenders, and then returned, with a grave chuckle, to his task.

When the time mentioned had expired, we had reached a depth of five feet, and yet no signs of any treasure became manifest. A general pause ensued, and I began to hope that the farce was at an end. Legrand, however, although evidently much disconcerted, wiped his brow thoughtfully and recommenced. We had excavated the entire circle of four feet diameter, and now we slightly enlarged the limit, and went to the farther depth of two feet. Still nothing appeared. The gold-seeker, whom I sincerely pitied, at length clambered from the pit, with the bitterest disappointment imprinted upon every feature, and proceeded, slowly and reluctantly, to put on his coat, which he had thrown off at the beginning of his labor. In

the mean time I made no remark. Jupiter, at a signal from his master, began to gather up his tools. This done, and the dog having been unmuzzled, we turned in profound silence towards home.

We had taken, perhaps, a dozen steps in this direction, when, with a loud oath, Legrand strode up to Jupiter, and seized him by the collar. The astonished negro opened his eyes and mouth to the fullest extent, let fall the spades, and fell upon his knees.

"You scoundrel," said Legrand, hissing out the syllables from between his clenched teeth—"you infernal black villain!—speak, I tell you!—answer me this instant, without prevarication!—which—which is your left eye?"

"Oh, my golly, Massa Will! aint dis here my lef eye for sartain?" roared the terrified Jupiter, placing his hand upon his *right* organ of vision, and holding it there with a desperate pertinacity, as if in immediate dread of his master's attempt at a gouge.

"I thought so!—I knew it! hurrah!" vociferated Legrand, letting the negro go, and executing a series of curvets and caracols, much to the astonishment of his valet, who, arising from his knees, looked, mutely, from his master to myself, and then from myself to his master.

"Come! we must go back," said the latter, "the game 's not up yet;" and he again led the way to the tulip-tree.

"Jupiter," said he, when we reached its foot, "come here! was the skull nailed to the limb with the face outwards, or with the face to the limb?"

"De face was out, massa, so dat de crows could get at de eyes good, widout any trouble."

"Well, then, was it this eye or that through which

you dropped the beetle?"—here Legrand touched each of Jupiter's eyes.

"Twas dis eye, massa—de lef eye—jis as you tell me," and here it was his right eye that the negro indicated.

"That will do—we must try it again."

Here my friend, about whose madness I now saw, or fancied that I saw, certain indications of method, removed the peg which marked the spot where the beetle fell, to a spot about three inches to the westward of its former position. Talking, now, the tape-measure from the nearest point of the trunk to the peg, as before, and continuing the extension in a straight line to the distance of fifty feet, a spot was indicated, removed, by several yards, from the point at which we had been digging.

Around the new position a circle, somewhat larger than in the former instance, was now described, and we again set to work with the spades. I was dreadfully weary, but, scarcely understanding what had occasioned the change in my thoughts, I felt no longer any great aversion from the labor imposed. I had become most unaccountably interested—nay, even excited. Perhaps there was something, amid all the extravagant demeanor of Legrand—some air of forethought, or of deliberation, which impressed me. I dug eagerly, and now and then caught myself actually looking, with something that very much resembled expectation, for the fancied treasure, the vision of which had demented my unfortunate companion. At a period when such vagaries of thought most fully possessed me, and when we had been at work perhaps an hour and a half, we were again interrupted by the violent howlings of the dog. His uneasiness, in the first instance, had been, evidently, but the result of playfulness, or caprice,

but he now assumed a bitter and serious tone. Upon Jupiter's again attempting to muzzle him, he made furious resistance, and, leaping into the hole, tore up the mould frantically with his claws. In a few seconds he had uncovered a mass of human bones, forming two complete skeletons, intermingled with several buttons of metal, and what appeared to be the dust of decayed woollen. One or two strokes of a spade upturned the blade of a large Spanish knife, and, as we dug farther, three or four loose pieces of gold and silver coin came to light.

At sight of these the joy of Jupiter could scarcely be restrained, but the countenance of his master wore an air of extreme disappointment. He urged us, however, to continue our exertions, and the words were hardly uttered when I stumbled and fell forward having caught the toe of my boot in a large ring of iron that lay half buried in the loose earth.

We now worked in earnest, and never did I pass ten minutes of more intense excitement. During this interval we had fairly unearthed an oblong chest of wood, which, from its perfect preservation and wonderful hardness, had plainly been subjected to some mineralizing process—perhaps that of the Bichloride of Mercury. This box was three feet and a half long, three feet broad, and two and a half feet deep. It was firmly secured by bands of wrought iron, riveted, and forming a kind of open trellis-work over the whole. On each side of the chest, near the top, were three rings of iron—six in all—by means of which a firm hold could be obtained by six persons. Our utmost united endeavors served only to disturb the coffer very slightly in its bed. We at once saw the impossibility of removing so great a weight. Luckily, the sole fastenings of the lid consisted of two sliding bolts. These we drew back—trembling

and panting with anxiety. In an instant, a treasure of incalculable value lay gleaming before us. As the rays of the lanterns fell within the pit, there flashed upwards a glow and a glare, from a confused heap of gold and of jewels, that absolutely dazzled our eyes.

I shall not pretend to describe the feelings with which I gazed. Amazement was, of course, predominant. Legrand appeared exhausted with excitement, and spoke very few words. Jupiter's countenance wore, for some minutes, as deadly a pallor as it is possible, in the nature of things, for any negro's visage to assume. He seemed stupefied—thunderstricken. Presently he fell upon his knees in the pit, and, burying his naked arms up to the elbows in gold, let them there remain, as if enjoying the luxury of a bath. At length, with a deep sigh, he exclaimed, as if in a soliloquy,

"And dis all cum ob de goole-bug! de putty goole-bug! de poor little goole-bug, what I boosed in dat sabage kind ob style! Aint you shamed ob yourself, nigger?—answer me dat!"

It became necessary, at last, that I should arouse both master and valet to the expediency of removing the treasure. It was growing late, and it behooved us to make exertion, that we might get everything housed before daylight. It was difficult to say what should be done, and much time was spent in deliberation—so confused were the ideas of all. We, finally, lightened the box by removing two-thirds of its contents, when we were enabled, with some trouble, to raise it from the hole. The articles taken out were deposited among the brambles, and the dog left to guard them, with strict orders from Jupiter neither, upon any pretence, to stir from the spot, nor to open his mouth until our return. We then

hurriedly made for home with the chest; reaching the hut in safety, but after excessive toil, at one o'clock in the morning. Worn out as we were, it was not in human nature to do more immediately. We rested until two, and had supper; starting for the hills immediately afterwards, armed with three stout sacks which, by good luck, were upon the premises. A little before four we arrived at the pit, divided the remainder of the booty, as equally as might be, among us, and, leaving the holes unfilled, again set out for the hut, at which, for the second time, we deposited our golden burthens, just as the first faint streaks of the dawn gleamed from over the tree-tops in the East.

We were now thoroughly broken down; but the intense excitement of the time denied us repose. After an unquiet slumber of some three or four hours' duration, we arose, as if by preconcert, to make examination of our treasure.

The chest had been full to the brim, and we spent the whole day, and the greater part of the next night, in a scrutiny of its contents. There had been nothing like order or arrangement. Everything had been heaped in promiscuously. Having assorted all with care, we found ourselves possessed of even vaster wealth than we had at first supposed. In coin there was rather more than four hundred and fifty thousand dollars—estimating the value of the pieces, as accurately as we could, by the tables of the period. There was not a particle of silver. All was gold of antique date and of great variety—French, Spanish, and German money, with a few English guineas, and some counters, of which we had never seen specimens before. There were several very large and heavy coins, so worn that we could make nothing of their inscriptions. There was no American money. The

value of the jewels we found more difficulty in estimating. There were diamonds—some of them exceedingly large and fine—a hundred and ten in all, and not one of them small; eighteen rubies of remarkable brilliancy;—three hundred and ten emeralds, all very beautiful; and twenty-one sapphires, with an opal. These stones had all been broken from their settings and thrown loose in the chest. The settings themselves, which we picked out from among the other gold, appeared to have been beaten up with hammers, as if to prevent identification. Besides all this, there was a vast quantity of solid gold ornaments;—nearly two hundred massive finger and ear rings;—rich chains—thirty of these, if I remember;—eighty-three very large and heavy crucifixes;—five gold censers of great value;—a prodigious golden punch-bowl, ornamented with richly chased vine-leaves and Bacchanalian figures; with two sword-handles exquisitely embossed, and many other smaller articles which I cannot recollect. The weight of these valuables exceeded three hundred and fifty pounds avoirdupois; and in this estimate I have not included one hundred and ninety-seven superb gold watches; three of the number being worth each five hundred dollars, if one. Many of them were very old, and as time keepers valueless; the works having suffered, more or less, from corrosion —but all were richly jewelled and in cases of great worth. We estimated the entire contents of the chest, that night, at a million and a half of dollars; and, upon the subsequent disposal of the trinkets and jewels (a few being retained for our own use), it was found that we had greatly undervalued the treasure.

When, at length, we had concluded our examination, and the intense excitement of the time had, in some measure, subsided, Legrand, who saw that I was

dying with impatience for a solution of this most extraordinary riddle, entered into a full detail of all the circumstances connected with it.

"You remember," said he, "the night when I handed you the rough sketch I had made of the *scarabæus*. You recollect also, that I became quite vexed at you for insisting that my drawing resembled a death's-head. When you first made this assertion I thought you were jesting; but afterwards I called to mind the peculiar spots on the back of the insect, and admitted to myself that your remark had some little foundation in fact. Still, the sneer at my graphic powers irritated me—for I am considered a good artist—and, therefore, when you handed me the scrap of parchment, I was about to crumple it up and throw it angrily into the fire."

"The scrap of paper, you mean," said I.

"No; it had much of the appearance of paper, and at first I supposed it to be such, but when I came to draw upon it, I discovered it, at once, to be a piece of very thin parchment. It was quite dirty, you remember. Well, as I was in the very act of crumpling it up, my glance fell upon the sketch at which you had been looking, and you may imagine my astonishment when I perceived, in fact, the figure of a death's-head just where, it seemed to me, I had made the drawing of the beetle. For a moment I was too much amazed to think with accuracy. I knew that my design was very different in detail from this—although there was a certain similarity in general outline. Presently I took a candle, and seating myself at the other end of the room, proceeded to scrutinize the parchment more closely. Upon turning it over I saw my own sketch upon the reverse, just as I had made it. My first idea, now, was mere surprise at the really remarkable similarity of outline—at the

singular coincidence involved in the fact, that unknown to me, there should have been a skull upon the other side of the parchment, immediately beneath my figure of the *scarabæus*, and that this skull, not only in outline, but in size, should so closely resemble my drawing. I say the singularity of this coincidence absolutely stupefied me for a time. This is the usual effect of such coincidences. The mind struggles to establish a connexion—a sequence of cause and effect—and, being unable to do so, suffers a species of temporary paralysis. But, when I recovered from this stupor, there dawned upon me gradually a conviction which startled me even far more than the coincidence. I began distinctly, positively, to remember that there had been *no* drawing upon the parchment when I made my sketch of the *scarabæus*. I became perfectly certain of this; for I recollected turning up first one side and then the other, in search of the cleanest spot. Had the skull been then there, of course I could not have failed to notice it. Here was indeed a mystery which I felt it impossible to explain; but, even at that early moment, there seemed to glimmer, faintly, within the most remote and secret chambers of my intellect, a glow-worm-like conception of that truth which last night's adventure brought to so magnificent a demonstration. I arose at once, and putting the parchment securely away, dismissed all farther reflection until I should be alone.

"When you had gone, and when Jupiter was fast asleep, I betook myself to a more methodical investigation of the affair. In the first place I considered the manner in which the parchment had come into my possession. The spot where we discovered the *scarabæus* was on the coast of the main land, about a mile eastward of the island, and but a short distance

above high water mark. Upon my taking hold of it, it gave me a sharp bite, which caused me to let it drop. Jupiter, with his accustomed caution, before seizing the insect, which had flown towards him, looked about him for a leaf, or something of that nature, by which to take hold of it. It was at this moment that his eyes, and mine also, fell upon the scrap of parchment, which I then supposed to be paper. It was lying half buried in the sand, a corner sticking up. Near the spot where we found it, I observed the remnants of the hull of what appeared to have been a ship's long boat. The wreck seemed to have been there for a very great while; for the resemblance to boat timbers could scarcely be traced.

"Well, Jupiter picked up the parchment, wrapped the beetle in it, and gave it to me. Soon afterwards we turned to go home, and on the way met Lieutenant G—. I showed him the insect, and he begged me to let him take it to the fort. Upon my consenting, he thrust it forthwith into his waistcoat pocket, without the parchment in which it had been wrapped, and which I had continued to hold in my hand during his inspection. Perhaps he dreaded my changing my mind, and thought it best to make sure of the prize at once—you know how enthusiastic he is on all subjects connected with Natural History. At the same time, without being conscious of it, I must have deposited the parchment in my own pocket.

"You remember that when I went to the table, for the purpose of making a sketch of the beetle, I found no paper where it was usually kept. I looked in the drawer, and found none there. I searched my pockets, hoping to find an old letter, when my hand fell upon the parchment. I thus detail the precise mode in which it came into my possession; for the circumstances impressed me with peculiar force.

"No doubt you will think me fanciful—but I had already established a kind of *connexion*. I had put together two links of a great chain. There was a boat lying upon a sea-coast, and not far from the boat was a parchment—*not a paper*—with a skull depicted upon it. You will, of course, ask 'where is the connection?' I reply that the skull, or death's-head, is the well-known emblem of the pirate. The flag of the death's-head is hoisted in all engagements.

"I have said that the scrap was parchment, and not paper. Parchment is durable—almost imperishable. Matters of little moment are rarely consigned to parchment; since, for the mere ordinary purposes of drawing or writing, it is not nearly so well adapted as paper. This reflection suggested some meaning—some relevancy—in the death's-head. I did not fail to observe, also, the *form* of the parchment. Although one of its corners had been, by some accident, destroyed, it could be seen that the original form was oblong. It was just such a slip, indeed, as might have been chosen for a memorandum—for a record of something to be long remembered and carefully preserved."

"But," I interposed, "you say that the skull was *not* upon the parchment when you made the drawing of the beetle. How then do you trace any connexion between the boat and the skull—since this latter, according to your own admission, must have been designed (God only knows how or by whom) at some period subsequent to your sketching the *scarabæus?*"

"Ah, hereupon turns the whole mystery; although the secret, at this point, I had comparatively little difficulty in solving. My steps were sure, and could afford but a single result. I reasoned, for example, thus: When I drew the *scarabæus*, there was no

skull apparent upon the parchment. When I had completed the drawing I gave it to you, and observed you narrowly until you returned it. *You*, therefore, did not design the skull, and no one else was present to do it. Then it was not done by human agency. And nevertheless it was done.

"At this stage of my reflections I endeavored to remember, and *did* remember, with entire distinctness, every incident which occurred about the period in question. The weather was chilly (oh rare and happy accident!), and a fire was blazing upon the hearth. I was heated with exercise and sat near the table. You, however, had drawn a chair close to the chimney. Just as I placed the parchment in your hand, and as you were in the act of inspecting it, Wolf, the Newfoundland, entered, and leaped upon your shoulders. With your left hand you caressed him and kept him off, while your right, holding the parchment, was permitted to fall listlessly between your knees, and in close proximity to the fire. At one moment I thought the blaze had caught it, and was about to caution you, but, before I could speak, you had withdrawn it, and were engaged in its examination. When I considered all these particulars, I doubted not for a moment that *heat* had been the agent in bringing to light, upon the parchment, the skull which I saw designed upon it. You are well aware that chemical preparations exist, and have existed time out of mind, by means of which it is possible to write upon either paper or vellum, so that the characters shall become visible only when subjected to the action of fire. Zaffre, digested in *aqua regia*, and diluted with four times its weight of water, is sometimes employed; a green tint results. The regulus of cobalt, dissolved in spirit of nitre, gives a red. These colors disappear at longer or

shorter intervals after the material written upon cools, but again become apparent upon the re-application of heat.

"I now scrutinized the death's-head with care. Its outer edges—the edges of the drawing nearest the edge of the vellum—were far more *distinct* than the others. It was clear that the action of the caloric had been imperfect or unequal. I immediately kindled a fire, and subjected every portion of the parchment to a glowing heat. At first, the only effect was the strengthening of the faint lines in the skull; but, upon persevering in the experiment, there became visible, at the corner of the slip, diagonally opposite to the spot in which the death's-head was delineated, the figure of what I at first supposed to be a goat. A closer scrutiny, however, satisfied me that it was intended for a kid."

"Ha! ha!" said I, "to be sure I have no right to laugh at you—a million and a half of money is too serious a matter for mirth—but you are not about to establish a third link in your chain—you will not find any especial connexion between your pirates and a goat—pirates, you know, have nothing to do with goats; they appertain to the farming interest."

"But I have just said that the figure was *not* that of a goat."

"Well, a kid then—pretty much the same thing."

"Pretty much, but not altogether," said Legrand. "You may have heard of one *Captain* Kidd. I at once looked upon the figure of the animal as a kind of punning or hieroglyphical signature. I say signature; because its position upon the vellum suggested this idea. The death's-head at the corner diagonally opposite, had, in the same manner, the air of a stamp, or seal. But I was sorely put out by

the absence of all else—of the body to my imagined instrument—of the text for my context."

"I presume you expected to find a letter between the stamp and the signature."

"Something of that kind. The fact is, I felt irresistibly impressed with a presentiment of some vast good fortune impending. I can scarcely say why. Perhaps, after all, it was rather a desire than an actual belief;—but do you know that Jupiter's silly words, about the bug being of solid gold, had a remarkable effect upon my fancy? And then the series of accidents and coincidences—these were so *very* extraordinary. Do you observe how mere an accident it was that these events should have occurred upon the *sole* day of all the year in which it has been, or may be, sufficiently cool for fire, and that without the fire, or without the intervention of the dog at the precise moment in which he appeared, I should never have become aware of the death's-head, and so never the possessor of the treasure?"

"But proceed—I am all impatience."

"Well; you have heard, of course, the many stories current—the thousand vague rumors afloat about money buried, somewhere upon the Atlantic Coast, by Kidd and his associates. These rumors must have had some foundation in fact. And that the rumors have existed so long and so continuous, could have resulted, it appeared to me, only from the circumstance of the buried treasure still *remaining* entombed. Had Kidd concealed his plunder for a time, and afterwards reclaimed it, the rumors would scarcely have reached us in their present unvarying form. You will observe that the stories told are all about money-seekers, not about money-finders. Had the pirate recovered his money, there the affair would have dropped. It seemed to me

that some accident—say the loss of a memorandum indicating its locality—had deprived him of the means of recovering it, and that this accident had become known to his followers, who otherwise might never have heard that treasure had been concealed at all, and who, busying themselves in vain, because unguided attempts, to regain it, had given first birth, and then universal currency, to the reports which are now so common. Have you ever heard of any important treasure being unearthed along the coast?"

"Never."

"But that Kidd's accumulations were immense, is well known. I took it for granted, therefore, that the earth still held them; and you will scarcely be surprised when I tell you that I felt a hope, nearly amounting to certainty, that the parchment so strangely found, involved a lost record of that place of deposit."

"But how did you proceed?"

"I held the vellum again to the fire, after increasing the heat; but nothing appeared. I now thought it possible that the coating of dirt might have something to do with the failure; so I carefully rinsed the parchment by pouring warm water over it, and, having done this, I placed it in a tin pan, with the skull downwards, and put the pan upon a furnace of lighted charcoal. In a few minutes, the pan having become thoroughly heated, I removed the slip, and, to my inexpressible joy, found it spotted, in several places, with what appeared to be figures arranged in lines. Again I placed it in the pan, and suffered it to remain another minute. Upon taking it off, the whole was just as you see it now."

Here Legrand, having re-heated the parchment, submitted it to my inspection. The following char-

acters were rudely traced, in a red tint, between the death's-head and the goat:

53‡‡†305))6*;4826)4‡.)4‡);806*;48†8¶60))85;1‡(;:‡*8†83(88)5*†;46(;88*96*?;8)*‡(;485);5*†2:*‡(;4956*2(5*—4)8¶8*;4069285);)6†8)4‡‡;1(‡9;48081;8:8‡1;48‡85;4)485†528806*81(‡9;48;(88;4(‡?34;48)4‡;161;:188;‡?;

"But," said I, returning him the slip, "I am as much in the dark as ever. Were all the jewels of Golconda awaiting me upon my solution of this enigma, I am quite sure that I should be unable to earn them."

"And yet," said Legrand, "the solution is by no means so difficult as you might be led to imagine from the first hasty inspection of the characters. These characters, as any one might readily guess, form a cipher—that is to say, they convey a meaning; but then, from what is known of Kidd, I could not suppose him capable of constructing any of the more abstruse cryptographs. I made up my mind, at once, that this was of a simple species—such, however, as would appear, to the crude intellect of the sailor, absolutely insoluble without the key."

"And you really solved it?"

"Readily; I have solved others of an abstruseness ten thousand times greater. Circumstances, and a certain bias of mind, have led me to take interest in such riddles, and it may well be doubted whether human ingenuity can construct an enigma of the kind which human ingenuity may not, by proper application, resolve. In fact, having once established connected and legible characters, I scarcely gave a thought to the mere difficulty of developing their import.

"In the present case—indeed in all cases of secret writing—the first question regards the *language* of

the cipher; for the principles of solution, so far, especially, as the more simple ciphers are concerned, depend upon, and are varied by, the genius of the particular idiom. In general, there is no alternative but experiment (directed by probabilities) of every tongue known to him who attempts the solution, until the true one be attained. But, with the cipher now before us, all difficulty was removed by the signature. The pun upon the word 'Kidd' is appreciable in no other language than the English. But for this consideration I should have begun my attempts with the Spanish and French, as the tongues in which a secret of this kind would most naturally have been written by a pirate of the Spanish main. As it was, I assumed the cryptograph to be English.

"You observe there are no divisions between the words. Had there been divisions, the task would have been comparatively easy. In such case I should have commenced with a collation and analysis of the shorter words, and had a word of a single letter occurred, as is most likely, (*a* or *I*, for example,) I should have considered the solution as assured. But, there being no division, my first step was to ascertain the predominant letters, as well as the least frequent. Counting all, I constructed a table, thus:

Of the character	8	there are 33.
	;	" 26.
	4	" 19.
	‡)	" 16.
	*	" 13.
	5	" 12.
	6	" 11.
	†1	" 8.

0	"	6.
92	"	5.
:3	"	4.
?	"	3.
¶	"	2.
—.	"	1.

"Now, in English, the letter which most frequently occurs is *e*. Afterwards, the succession runs thus: *a o i d h n r s t u y c f g l m w b k p q x z*. *E* predominates so remarkably that an individual sentence of any length is rarely seen, in which it is not the prevailing character.

"Here, then, we have, in the very beginning, the groundwork for something more than a mere guess. The general use which may be made of the table is obvious—but, in this particular cipher, we shall only very partially require its aid. As our predominant character is 8, we will commence by assuming it as the *e* of the natural alphabet. To verify the supposition, let us observe if the 8 be seen often in couples—for *e* is doubled with great frequency in English—in such words, for example, as 'meet,' 'fleet,' 'speed,' 'seen,' 'been,' 'agree,' &c. In the present instance we see it doubled no less than five times, although the cryptograph is brief.

"Let us assume 8, then, as *e*. Now, of all *words* in the language, 'the' is most usual; let us see, therefore, whether there are not repetitions of any three characters, in the same order of collocation, the last of them being 8. If we discover repetitions of such letters, so arranged, they will most probably represent the word 'the.' Upon inspection, we find no less than seven such arrangements, the characters being ;48. We may, therefore, assume that ; represents *t*, 4 represents *h*, and 8 represents *e*—the

last being now well confirmed. Thus a great step has been taken.

"But, having established a single word, we are enabled to establish a vastly important point; that is to say, several commencements and terminations of other words. Let us refer, for example, to the last instance but one, in which the combination ;48 occurs—not far from the end of the cipher. We know that the ; immediately ensuing is the commencement of a word, and, of the six characters succeeding this 'the,' we are cognizant of no less than five. Let us set these characters down, thus, by the letters we know them to represent, leaving a space for the unknown—

t eeth.

"Here we are enabled, at once, to discard the '*th*,' as forming no portion of the word commencing with the first *t*; since, by experiment of the entire alphabet for a letter adapted to the vacancy, we perceive that no word can be formed of which this *th* can be a part. We are thus narrowed into

t ee,

and, going through the alphabet, if necessary, as before, we arrive at the word 'tree,' as the sole possible reading. We thus gain another letter, *r*, represented by (, with the words 'the tree' in juxtaposition.

"Looking beyond these words, for a short distance, we again see the combination ;48, and employ it by way of *termination* to what immediately precedes. We have thus this arrangement:

the tree ;4(‡?34 the,

or, substituting the natural letters, where known, it reads thus:

the tree thr‡?3h the.

"Now, if, in place of the unknown characters, we leave blank spaces, or substitute dots, we read thus:

the tree thr...h the,

when the word '*through*' makes itself evident at once. But this discovery gives us three new letters, *o*, *u* and *g*, represented by ‡? and 3.

"Looking now, narrowly, through the cipher for combinations of known characters, we find, not very far from the beginning, this arrangement,

83(88, or egree,

which, plainly, is the conclusion of the word 'degree,' and gives us another letter, *d*, represented by †.

"Four letters beyond the word 'degree,' we perceive the combination

;48(;88.

"Translating the known characters, and representing the unknown by dots, as before, we read thus:

th rtee.

an arrangement immediately suggestive of the word 'thirteen,' and again furnishing us with two new characters, *i* and *n*, represented by 6 and *.

"Referring, now, to the beginning of the cryptograph, we find the combination,

53‡‡†.

"Translating, as before, we obtain

. good,

which assures us that the first letter is *A*, and that the first two words are ' A good.'

"It is now time that we arrange our key, as far as discovered, in a tabular form, to avoid confusion. It will stand thus:

5	represents	a
†	"	d
8	"	e
3	"	g

4	represents	h
6	"	i
*	"	n
‡	"	o
(	"	r
;	"	t

"We have, therefore, no less than ten of the most important letters represented, and it will be unnecessary to proceed with the details of the solution. I have said enough to convince you that ciphers of this nature are readily soluble, and to give you some insight into the *rationale* of their development. But be assured that the specimen before us appertains to the very simplest species of cryptograph. It now only remains to give you the full translation of the characters upon the parchment, as unriddled. Here it is:

'*A good glass in the bishop's hostel in the devil's seat forty-one degrees and thirteen minutes northeast and by north main branch seventh limb east side shoot from the left eye of the death's-head a bee line from the tree through the shot fifty feet out.*' "

"But," said I, "the enigma seems still in as bad a condition as ever. How is it possible to extort a meaning from all this jargon about 'devil's seats,' 'death's heads,' and 'bishop's hotels'?"

"I confess," replied Legrand, "that the matter still wears a serious aspect, when regarded with a casual glance. My first endeavor was to divide the sentence into the natural division intended by the cryptographist."

"You mean, to punctuate it?"

"Something of that kind."

"But how was it possible to effect this?"

"I reflected that it had been a *point* with the

writer to run his words together without division, so as to increase the difficulty of solution. Now, a not over-acute man, in pursuing such an object, would be nearly certain to overdo the matter. When, in the course of his composition, he arrived at a break in his subject which would naturally require a pause, or a point, he would be exceedingly apt to run his characters, at this place, more than usually close together. If you will observe the MS., in the present instance, you will easily detect five such cases of unusual crowding. Acting upon this hint, I made the division thus:

'*A good glass in the Bishop's hostel in the Devil's seat—forty-one degrees and thirteen minutes—north-east and by north—main branch seventh limb east side—shoot from the left eye of the death's-head—a bee-line from the tree through the shot fifty feet out.*' "

"Even this division," said I, "leaves me still in the dark."

"It left me also in the dark," replied Legrand, "for a few days; during which I made diligent inquiry, in the neighborhood of Sullivan's Island, for any building which went by the name of the 'Bishop's Hotel;' for, of course, I dropped the obsolete word 'hostel.' Gaining no information on the subject, I was on the point of extending my sphere of search, and proceeding in a more systematic manner, when, one morning, it entered into my head, quite suddenly, that this 'Bishop's Hostel' might have some reference to an old family, of the name of Bessop, which, time out of mind, had held possession of an ancient manor-house, about four miles to the northward of the Island. I accordingly went over to the plantation, and re-instituted my inquiries among the older negroes of the place. At length one of the most aged of the women said that she had heard of such a

place as *Bessop's Castle*, and thought that she could guide me to it, but that it was not a castle, nor a tavern, but a high rock.

"I offered to pay her well for her trouble, and, after some demur, she consented to accompany me to the spot. We found it without much difficulty, when, dismissing her, I proceeded to examine the place. The 'castle' consisted of an irregular assemblage of cliffs and rocks—one of the latter being quite remarkable for its height as well as for its insulated and artificial appearance. I clambered to its apex, and then felt much at a loss as to what should be next done.

"While I was busied in reflection, my eyes fell upon a narrow ledge in the eastern face of the rock, perhaps a yard below the summit upon which I stood. This ledge projected about eighteen inches, and was not more than a foot wide, while a niche in the cliff just above it, gave it a rude resemblance to one of the hollow-backed chairs used by our ancestors. I made no doubt that here was the 'devil's-seat' alluded to in the MS., and now I seemed to grasp the full secret of the riddle.

"The 'good glass,' I knew, could have reference to nothing but a telescope; for the word 'glass' is rarely employed in any other sense by seamen. Now here, I at once saw, was a telescope to be used, and a definite point of view, *admitting no variation*, from which to use it. Nor did I hesitate to believe that the phrases, "forty-one degrees and thirteen minutes,' and 'northeast and by north,' were intended as directions for the levelling of the glass. Greatly excited by these discoveries, I hurried home, procured a telescope, and returned to the rock.

"I let myself down to the ledge, and found that it was impossible to retain a seat upon it except in one

particular position. This fact confirmed my preconceived idea. I proceeded to use the glass. Of course, the 'forty-one degrees and thirteen minutes' could allude to nothing but elevation above the visible horizon, since the horizontal direction was clearly indicated by the words, 'northeast and by north.' This latter direction I at once established by means of a pocket-compass; then, pointing the glass as nearly at an angle of forty-one degrees of elevation as I could do it by guess, I moved it cautiously up or down, until my attention was arrested by a circular rift or opening in the foliage of a large tree that overtopped its fellows in the distance. In the centre of this rift I perceived a white spot, but could not, at first, distinguish what it was. Adjusting the focus of the telescope, I again looked, and now made it out to be a human skull.

"Upon this discovery I was so sanguine as to consider the enigma solved; for the phrase 'main branch, seventh limb, east side,' could refer only to the position of the skull upon the tree, while 'shoot from the left eye of the deaths-head' admitted, also, of but one interpretation, in regard to a search for buried treasure. I perceived that the design was to drop a bullet from the left eye of the skull, and that a bee-line, or, in other words, a straight line, drawn from the nearest point of the trunk through 'the shot,' (or the spot where the bullet fell,) and thence extended to a distance of fifty feet, would indicate a definite point—and beneath this point I thought it at least *possible* that a deposit of value lay concealed."

"All this," I said, "is exceedingly clear, and, although ingenious, still simple and explicit. When you left the Bishop's Hotel, what then?"

"Why, having carefully taken the bearings of the tree, I turned homewards. The instant that I left

'the devil's seat,' however, the circular rift vanished; nor could I get a glimpse of it afterwards, turn as I would. What seems to me the chief ingenuity in this whole business, is the fact (for repeated experiment has convinced me it *is* a fact) that the circular opening in question is visible from no other attainable point of view than that afforded by the narrow ledge upon the face of the rock.

"In this expedition to the 'Bishop's Hotel' I had been attended by Jupiter, who had, no doubt, observed, for some weeks past, the abstraction of my demeanor, and took especial care not to leave me alone. But, on the next day, getting up very early, I contrived to give him the slip, and went into the hills in search of the tree. After much toil I found it. When I came home at night my valet proposed to give me a flogging. With the rest of the adventure I believe you are as well acquainted as myself."

"I suppose," said I, "you missed the spot, in the first attempt at digging, through Jupiter's stupidity in letting the bug fall through the right instead of through the left eye of the skull."

"Precisely. This mistake made a difference of about two inches and a half in the 'shot'—that is to say, in the position of the peg nearest the tree; and had the treasure been *beneath* the 'shot,' the error would have been of little moment; but 'the shot,' together with the nearest point of the tree, were merely two points for the establishment of a line of direction; of course the error, however trivial in the beginning, increased as we proceeded with the line, and by the time we had gone fifty feet, threw us quite off the scent. But for my deep-seated impressions that treasure was here somewhere actually buried, we might have had all our labor in vain."

"But your grandiloquence, and your conduct in swinging the beetle—how excessively odd! I was sure you were mad. And why did you insist upon letting fall the bug, instead of a bullet, from the skull?"

"Why, to be frank, I felt somewhat annoyed by your evident suspicions touching my sanity, and so resolved to punish you quietly, in my own way, by a little bit of sober mystification. For this reason I swung the beetle, and for this reason I let it fall from the tree. An observation of yours about its great weight suggested the latter idea."

"Yes, I perceive; and now there is only one point which puzzles me. What are we to make of the skeletons found in the hole?"

"That is a question I am no more able to answer than yourself. There seems, however, only one plausible way of accounting for them—and yet it is dreadful to believe in such atrocity as my suggestion would imply. It is clear that Kidd—if Kidd indeed secreted this treasure, which I doubt not—it is clear that he must have had assistance in the labor. But this labor concluded, he may have thought it expedient to remove all participants in his secret. Perhaps a couple of blows with a mattock were sufficient, while his coadjutors were busy in the pit; perhaps it required a dozen—who shall tell?"

THE BALLOON-HOAX

[Astounding News by Express, *via* Norfolk!—The Atlantic crossed in Three Days! Signal Triumph of Mr. Monck Mason's Flying Machine!—Arrival at Sullivan's Island, near Charleston, S. C., of Mr. Mason, Mr. Robert Holland, Mr. Henson, Mr. Harrison Ainsworth, and four others, in the Steering Balloon, "Victoria," after a passage of Seventy-five Hours from Land to Land! Full Particulars of the Voyage!

The subjoined *jeu d'esprit* with the preceding heading in magnificent capitals, well interspersed with notes of admiration, was originally published, as matter of fact, in the "New-York Sun," a daily newspaper, and therein fully subserved the purpose of creating indigestible aliment for the *quidnuncs* during the few hours intervening between a couple of the Charleston mails. The rush for the "sole paper which had the news," was something beyond even the prodigious; and, in fact, if (as some assert) the "Victoria" *did* not absolutely accomplish the voyage recorded, it will be difficult to assign a reason why she *should* not have accomplished it.]

THE great problem is at length solved! The air, as well as the earth and the ocean, has been subdued by science, and will become a common and convenient highway for mankind. *The Atlantic has been actually crossed in a Balloon!* and this too without difficulty—without any great apparent danger—with thorough control of the machine—and in the inconceivably brief period of seventy-five hours from shore to shore! By the energy of an agent at Charleston, S. C., we are enabled to be the first to furnish the public with a detailed account of this most extraordinary voyage, which was performed between Saturday, the 6th instant, at 11, A. M., and 2, P. M., on Tuesday, the 9th instant, by Sir Everard

Bringhurst; Mr. Osborne, a nephew of Lord Bentinck's; Mr. Monck Mason and Mr. Robert Holland, the well-known aeronauts; Mr. Harrison Ainsworth, author of "Jack Sheppard," &c.; and Mr. Henson, the projector of the late unsuccessful flying machine —with two seamen from Woolwich—in all, eight persons. The particulars furnished below may be relied on as authentic and accurate in every respect, as, with a slight exception, they are copied *verbatim* from the joint diaries of Mr. Monck Mason and Mr. Harrison Ainsworth, to whose politeness our agent is also indebted for much verbal information respecting the balloon itself, its construction, and other matters of interest. The only alteration in the MS. received, has been made for the purpose of throwing the hurried account of our agent, Mr. Forsyth, in a connected and intelligible form.

THE BALLOON

Two very decided failures, of late—those of Mr. Henson and Sir George Cayley—had much weakened the public interest in the subject of aerial navigation. Mr. Henson's scheme (which at first was considered very feasible even by men of science,) was founded upon the principle of an inclined plane, started from an eminence by an extrinsic force, applied and continued by the revolution of impinging vanes, in form and number resembling the vanes of a windmill. But, in all the experiments made with models at the Adelaide Gallery, it was found that the operation of these fans not only did not propel the machine, but actually impeded its flight. The only propelling force it ever exhibited, was the mere *impetus* acquired from the descent of the inclined plane; and this *impetus* carried the machine farther when the

vanes were at rest, than when they were in motion—a fact which sufficiently demonstrates their inutility; and in the absence of the propelling, which was also the *sustaining* power, the whole fabric would necessarily descend. This consideration led Sir George Cayley to think only of adapting a propeller to some machine having of itself an independent power of support—in a word, to a balloon; the idea, however, being novel, or original, with Sir George, only so far as regards the mode of its application to practice. He exhibited a model of his invention at the Polytechnic Institution. The propelling principle, or power, was here, also, applied to interrupted surfaces, or vanes, put in revolution. These vanes were four in number, but were found entirely ineffectual in moving the balloon, or in aiding its ascending power. The whole project was thus a complete failure.

It was at this juncture that Mr. Monck Mason (whose voyage from Dover to Weilburg in the balloon "Nassau," occasioned so much excitement in 1837,) conceived the idea of employing the principle of the Archimedean screw for the purpose of propulsion through the air—rightly attributing the failure of Mr. Henson's scheme, and of Sir George Cayley's, to the interruption of surface in the independent vanes. He made the first public experiment at Willis's Rooms, but afterwards removed his model to the Adelaide Gallery.

Like Sir George Cayley's balloon, his own was an ellipsoid. Its length was thirteen feet six inches—height, six feet eight inches. It contained about three hundred and twenty cubic feet of gas, which, if pure hydrogen, would support twenty-one pounds upon its first inflation, before the gas has time to deteriorate or escape. The weight of the whole

machine and apparatus was seventeen pounds—leaving about four pounds to spare. Beneath the centre of the balloon, was a frame of light wood, about nine feet long, and rigged on to the balloon itself with a net-work in the customary manner. From this framework was suspended a wicker basket or car.

The screw consists of an axis of hollow brass tube, eighteen inches in length, through which, upon a semi-spiral inclined at fifteen degrees, pass a series of steel wire radii, two feet long, and thus projecting a foot on either side. These radii are connected at the outer extremities by two bands of flattened wire —the whole in this manner forming the framework of the screw, which is completed by a covering of oiled silk cut into gores, and tightened so as to present a tolerably uniform surface. At each end of its axis this screw is supported by pillars of hollow brass tube descending from the hoop. In the lower ends of these tubes are holes in which the pivots of the axis revolve. From the end of the axis which is next the car, proceeds a shaft of steel, connecting the screw with the pinion of a piece of spring machinery fixed in the car. By the operation of this spring, the screw is made to revolve with great rapidity, communicating a progressive motion to the whole. By means of the rudder, the machine was readily turned in any direction. The spring was of great power, compared with its dimensions, being capable of raising forty-five pounds upon a barrel of four inches diameter, after the first turn, and gradually increasing as it was wound up. It weighed, altogether, eight pounds six ounces. The rudder was a light frame of cane covered with silk, shaped somewhat like a battledoor, and was about three feet long, and at the widest, one foot. Its weight was

about two ounces. It could be turned *flat*, and directed upwards or downwards, as well as to the right or left; and thus enabled the aeronaut to transfer the resistance of the air which in an inclined position it must generate in its passage, to any side upon which he might desire to act; thus determining the balloon in the opposite direction.

This model (which, through want of time, we have necessarily described in an imperfect manner,) was put in action at the Adelaide Gallery, where it accomplished a velocity of five miles per hour; although, strange to say, it excited very little interest in comparison with the previous complex machine of Mr. Henson—so resolute is the world to despise anything which carries with it an air of simplicity. To accomplish the great desideratum of aerial navigation, it was very generally supposed that some exceedingly complicated application must be made of some unusually profound principle in dynamics.

So well satisfied, however, was Mr. Mason of the ultimate success of his invention, that he determined to construct immediately, if possible, a balloon of sufficient capacity to test the question by a voyage of some extent—the original design being to cross the British Channel, as before, in the Nassau balloon. To carry out his views, he solicited and obtained the patronage of Sir Everard Bringhurst and Mr. Osborne, two gentlemen well known for scientific acquirement, and especially for the interest they have exhibited in the progress of aerostation. The project, at the desire of Mr. Osborne, was kept a profound secret from the public—the only persons entrusted with the design being those actually engaged in the construction of the machine, which was built (under the superintendence of Mr. Mason, Mr. Holland, Sir Everard Bringhurst, and Mr.

Osborne,) at the seat of the latter gentleman near Penstruthal, in Wales. Mr. Henson, accompanied by his friend Mr. Ainsworth, was admitted to a private view of the balloon, on Saturday last—when the two gentlemen made final arrangements to be included in the adventure. We are not informed for what reason the two seamen were also included in the party—but, in the course of a day or two, we shall put our readers in possession of the minutest particulars respecting this extraordinary voyage.

The balloon is composed of silk, varnished with the liquid gum caoutchouc. It is of vast dimensions, containing more than 40,000 cubic feet of gas; but as coal gas was employed in place of the more expensive and inconvenient hydrogen, the supporting power of the machine, when fully inflated, and immediately after inflation, is not more than about 2500 pounds. The coal gas is not only much less costly, but is easily procured and managed.

For its introduction into common use for purposes of aerostation, we are indebted to Mr. Charles Green. Up to his discovery, the process of inflation was not only exceedingly expensive, but uncertain. Two, and even three days, have frequently been wasted in futile attempts to procure a sufficiency of hydrogen to fill a balloon, from which it had great tendency to escape owing to its extreme subtlety, and its affinity for the surrounding atmosphere. In a balloon sufficiently perfect to retain its contents of coal-gas unaltered, in quality or amount, for six months, an equal quantity of hydrogen could not be maintained in equal purity for six weeks.

The supporting power being estimated at 2500 pounds, and the united weights of the party amounting only to about 1200, there was left a surplus of 1300, of which again 1200 was exhausted by ballast, arranged

in bags of different sizes, with their respective weights marked upon them—by cordage, barometers, telescopes, barrels containing provision for a fortnight, water casks, cloaks, carpet-bags, and various other indispensable matters, including a coffee-warmer, contrived for warming coffee by means of slack-lime, so as to dispense altogether with fire, if it should be judged prudent to do so. All these articles, with the exception of the ballast, and a few trifles, were suspended from the hoop over head. The car is much smaller and lighter, in proportion, than the one appended to the model. It is formed of a light wicker, and is wonderfully strong, for so frail looking a machine. Its rim is about four feet deep. The rudder is also very much larger, in proportion, than that of the model; and the screw is considerably smaller. The balloon is furnished besides, with a grapnel, and a guide-rope; which latter is of the most indispensable importance. A few words, in explanation, will here be necessary for such of our readers as are not conversant with the details of aerostation.

As soon as the balloon quits the earth, it is subjected to the influence of many circumstances tending to create a difference in its weight; augmenting or diminishing its ascending power. For example, there may be a disposition of dew upon the silk, to the extent, even, of several hundred pounds; ballast has then to be thrown out, or the machine may descend. This ballast being discarded, and a clear sunshine evaporating the dew, and at the same time expanding the gas in the silk, the whole will again rapidly ascend. To check this ascent, the only resource is, (or rather *was*, until Mr. Green's invention of the guide-rope,) the permission of the escape of gas from the valve; but, in the loss of gas, is a pro-

portionate general loss of ascending power; so that, in a comparatively brief period, the best constructed balloon must necessarily exhaust all its resources, and come to the earth. This was the great obstacle to voyages of length.

The guide-rope remedies the difficulty in the simplest manner conceivable. It is merely a very long rope which is suffered to trail from the car, and the effect of which is to prevent the balloon from changing its level in any material degree. If, for example, there should be a deposition of moisture upon the silk, and the machine begins to descend in consequence, there will be no necessity for discharging ballast to remedy the increase of weight, for it is remedied, or counteracted, in an exactly just proportion, by the deposit on the ground of just so much of the end of the rope as is necessary. If, on the other hand, any circumstances should cause undue levity, and consequent ascent, this levity is immediately counteracted by the additional weight of rope upraised from the earth. Thus, the balloon can neither ascend or descend, except within very narrow limits, and its resources, either in gas or ballast, remain comparatively unimpaired. When passing over an expanse of water, it becomes necessary to employ small kegs of copper or wool, filled with liquid ballast of a lighter nature than water. These float, and serve all the purposes of a mere rope on land. Another most important office of the guide-rope, is to point out the *direction* of the balloon. The rope *drags*, either on land or sea, while the balloon is free; the latter, consequently, is always in advance, when any progress whatever is made: a comparison, therefore, by means of the compass, of the relative positions of the two objects, will always indicate the *course*. In the same way, the angle

formed by the rope with the vertical axis of the machine, indicates the *velocity*. When there is *no* angle—in other words, when the rope hangs perpendicularly, the whole apparatus is stationary; but the larger the angle, that is to say, the farther the balloon precedes the end of the rope, the greater the velocity; and the converse.

As the original design was to cross the British Channel, and alight as near Paris as possible, the voyagers had taken the precaution to prepare themselves with passports directed to all parts of the Continent, specifying the nature of the expedition, as in the case of the Nassau voyage, and entitling the adventurers to exemption from the usual formalities of office: unexpected events, however, rendered these passports superfluous.

The inflation was commenced very quietly at daybreak, on Saturday morning, the 6th instant, in the Court-Yard of Weal-Vor House, Mr. Osborne's seat, about a mile from Penstruthal, in North Wales; and at 7 minutes past 11, everything being ready for departure, the balloon was set free, rising gently but steadily, in a direction nearly South; no use being made, for the first half hour, of either the screw or the rudder. We proceed now with the journal, as transcribed by Mr. Forsyth from the joint MSS. of Mr. Monck Mason, and Mr. Ainsworth. The body of the journal, as given, is in the hand-writing of Mr. Mason, and a P. S. is appended, each day, by Mr. Ainsworth, who has in preparation, and will shortly give the public a more minute, and no doubt, a thrillingly interesting account of the voyage.

THE JOURNAL

Saturday, April the 6th.—Every preparation likely to embarrass us, having been made over night, we

commenced the inflation this morning at daybreak; but owing to a thick fog, which encumbered the folds of the silk and rendered it unmanageable, we did not get through before nearly eleven o'clock. Cut loose, then, in high spirits, and rose gently but steadily, with a light breeze at North, which bore us in the direction of the British Channel. Found the ascending force greater than we had expected; and as we arose higher and so got clear of the cliffs, and more in the sun's rays, our ascent became very rapid. I did not wish, however, to lose gas at so early a period of the adventure, and so concluded to ascend for the present. We soon ran out our guide-rope; but even when we had raised it clear of the earth, we still went up very rapidly. The balloon was unusually steady, and looked beautifully. In about ten minutes after starting, the barometer indicated an altitude of 15,000 feet. The weather was remarkably fine, and the view of the subjacent country—a most romantic one when seen from any point,—was now especially sublime. The numerous deep gorges presented the appearance of lakes, on account of the dense vapors with which they were filled, and the pinnacles and crags to the South East, piled in inextricable confusion, resembled nothing so much as the giant cities of eastern fable. We were rapidly approaching the mountains in the South; but our elevation was more than sufficient to enable us to pass them in safety. In a few minutes we soared over them in fine style; and Mr. Ainsworth, with the seaman, were surprised at their apparent want of altitude when viewed from the car, the tendency of great elevation in a balloon being to reduce inequalities of the surface below, to nearly a dead level. At half-past eleven still proceeding nearly South, we obtained our first view of the Bristol

Channel; and, in fifteen minutes afterwards, the line of breakers on the coast appeared immediately beneath us, and we were fairly out at sea. We now resolved to let off enough gas to bring our guide-rope, with the buoys affixed, into the water. This was immediately done, and we commenced a gradual descent. In about twenty minutes our first buoy dipped, and at the touch of the second soon afterwards, we remained stationary as to elevation. We were all now anxious to test the efficiency of the rudder and screw, and we put them both into requisition forthwith, for the purpose of altering our direction more to the eastward, and in a line for Paris. By means of the rudder we instantly effected the necessary change of direction, and our course was brought nearly at right angles to that of the wind; when we set in motion the spring of the screw, and were rejoiced to find it propel us readily as desired. Upon this we gave nine hearty cheers, and dropped in the sea a bottle, enclosing a slip of parchment with a brief account of the principle of the invention. Hardly, however, had we done with our rejoicings, when an unforeseen accident occurred which discouraged us in no little degree. The steel rod connecting the spring with the propeller was suddenly jerked out of place, at the car end, (by a swaying of the car through some movement of one of the two seamen we had taken up,) and in an instant hung dangling out of reach, from the pivot of the axis of the screw. While we were endeavoring to regain it, our attention being completely absorbed, we became involved in a strong current of wind from the East, which bore us, with rapidly increasing force, towards the Atlantic. We soon found ourselves driving out to sea at the rate of not less, certainly, than fifty or sixty miles an hour, so that we came up with Cape

Clear, at some forty miles to our North, before we had secured the rod, and had time to think what we were about. It was now that Mr. Ainsworth made an extraordinary, but to my fancy, a by no means unreasonable or chimerical proposition, in which he was instantly seconded by Mr. Holland—viz.: that we should take advantage of the strong gale which bore us on, and in place of beating back to Paris, make an attempt to reach the coast of North America. After slight reflection I gave a willing assent to this bold proposition, which (strange to say) met with objection from the two seamen only. As the stronger party, however, we overruled their fears, and kept resolutely upon our course. We steered due West; but as the trailing of the buoys materially impeded our progress, and we had the balloon abundantly at command, either for ascent or descent, we first threw out fifty pounds of ballast, and then wound up (by means of a windlass) so much of a rope as brought it quite clear of the sea. We perceived the effect of this manœuvre immediately, in a vastly increased rate of progress; and, as the gale freshened, we flew with a velocity nearly inconceivable; the guide-rope flying out behind the car, like a streamer from a vessel. It is needless to say that a very short time sufficed us to lose sight of the coast. We passed over innumerable vessels of all kinds, a few of which were endeavoring to beat up, but the most of them lying to. We occasioned the greatest excitement on board all—an excitement greatly relished by ourselves, and especially by our two men, who, now under the influence of a dram of Geneva, seemed resolved to give all scruple, or fear, to the wind. Many of the vessels fired signal guns; and in all we were saluted with loud cheers (which we heard with surprising distinctness) and the

waving of caps and handkerchiefs. We kept on in this manner throughout the day, with no material incident, and, as the shades of night closed around us, we made a rough estimate of the distance traversed. It could not have been less than five hundred miles, and was probably much more. The propeller was kept in constant operation, and, no doubt, aided our progress materially. As the sun went down, the gale freshened into an absolute hurricane, and the ocean beneath was clearly visible on account of its phosphorescence. The wind was from the East all night, and gave us the brightest omen of success. We suffered no little from cold, and the dampness of the atmosphere was most unpleasant; but the ample space in the car enabled us to lie down, and by means of cloaks and a few blankets, we did sufficiently well.

P. S. (by Mr. Ainsworth). The last nine hours have been unquestionably the most exciting of my life. I can conceive nothing more sublimating than the strange peril and novelty of an adventure such as this. May God grant that we succeed! I ask not success for mere safety to my insignificant person, but for the sake of human knowledge and—for the vastness of the triumph. And yet the feat is only so evidently feasible that the sole wonder is why men have scrupled to attempt it before. One single gale such as now befriends us—let such a tempest whirl forward a balloon for four or five days (these gales often last longer) and the voyager will be easily borne, in that period, from coast to coast. In view of such a gale the broad Atlantic becomes a mere lake. I am more struck, just now, with the supreme silence which reigns in the sea beneath us, notwithstanding its agitation, than with any other phenomenon presenting itself. The waters

give up no voice to the heavens. The immense flaming ocean writhes and is tortured uncomplainingly. The mountainous surges suggest the idea of innumerable dumb gigantic fiends struggling in impotent agony. In a night such as is this to me, a man *lives*—lives a whole century of ordinary life—nor would I forego this rapturous delight for that of a whole century of ordinary existence.

Sunday, the seventh. [Mr. Mason's MS.] This morning the gale, by 10, had subsided to an eight or nine knot breeze, (for a vessel at sea,) and bears us, perhaps, thirty miles per hour, or more. It has veered however, very considerably to the north; and now, at sundown, we are holding our course due west, principally by the screw and rudder, which answer their purposes to admiration. I regard the project as thoroughly successful, and the easy navigation of the air in any direction (not exactly in the teeth of a gale) as no longer problematical. We could not have made head against the strong wind of yesterday; but, by ascending, we might have got out of its influence, if requisite. Against a pretty stiff breeze, I feel convinced, we can make our way with the propeller. At noon, to-day, ascended to an elevation of nearly 25,000 feet, by discharging ballast. Did this to search for a more direct current, but found none so favorable as the one we are now in. We have an abundance of gas to take us across this small pond, even should the voyage last three weeks. I have not the slightest fear for the result. The difficulty has been strangely exaggerated and misapprehended. I can choose my current, and should I find *all* currents against me, I can make very tolerable headway with the propeller. We have had no incidents worth recording. The night promises fair.

P. S. [By Mr. Ainsworth.] I have little to record, except the fact (to me quite a surprising one) that, at an elevation equal to that of Cotopaxi, I experienced neither very intense cold, nor headache, nor difficulty of breathing; neither, I find, did Mr. Mason, nor Mr. Holland, nor Sir Everard. Mr. Osborne complained of constriction of the chest—but this soon wore off. We have flown at a great rate during the day, and we must be more than half way across the Atlantic. We have passed over some twenty or thirty vessels of various kinds, and all seem to be delightfully astonished. Crossing the ocean in a balloon is not so difficult a feat after all. *Omne ignotum pro magnifico. Mem:* at 25,000 feet elevation the sky appears nearly black, and the stars are distinctly visible; while the sea does not seem convex (as one might suppose) but absolutely and most unequivocally *concave*.*

Monday, the 8th. [Mr. Mason's MS.] This morning we had again some little trouble with the rod of the propeller, which must be entirely remodelled, for fear of serious accident—I mean the steel rod—

* *Note.*—Mr. Ainsworth has not attempted to account for this phenomena, which, however, is quite susceptible of explanation. A line dropped from an elevation of 25,000 feet, perpendicularly to the surface of the earth (or sea), would form the perpendicular of a right-angled triangle, of which the base would extend from the right angle to the horizon, and the hypothenuse from the horizon to the balloon. But the 25,000 feet of altitude is little or nothing, in comparison with the extent of the prospect. In other words, the base and hypothenuse of the supposed triangle would be so long when compared with the perpendicular that the two former may be regarded as nearly parallel. In this manner the horizon of the aeronaut would appear to be *on a level* with the car. But, as the point immediately beneath him seems, and is, at a great distance below him, it seems, of course, also, at a great distance below the horizon. Hence the impression of *concavity;* and this impression must remain, until the elevation shall bear so great a proportion to the extent of prospect, that the apparent parallelism of the base and hypothenuse disappears—when the earth's real convexity must become apparent.

not the vanes. The latter could not be improved. The wind has been blowing steadily and strongly from the northeast all day; and so far fortune seems bent upon favoring us. Just before day, we were all somewhat alarmed at some odd noises and concussions in the balloon, accompanied with the apparent rapid subsidence of the whole machine. These phenomena were occasioned by the expansion of the gas, through increase of heat in the atmosphere, and the consequent disruption of the minute particles of ice with which the network had become encrusted during the night. Threw down several bottles to the vessels below. Saw one of them picked up by a large ship—seemingly one of the New York line packets. Endeavored to make out her name, but could not be sure of it. Mr. Osborne's telescope made it out something like "Atalanta." It is now 12, at night, and we are still going nearly west, at a rapid pace. The sea is peculiarly phosphorescent.

P. S. [By Mr. Ainsworth.] It is now 2, A. M., and nearly calm, as well as I can judge—but it is very difficult to determine this point, since we move *with* the air so completely. I have not slept since quitting Wheal-Vor, but can stand it no longer, and must take a nap. We cannot be far from the American coast.

Tuesday, the 9th. [Mr. Ainsworth's MS.] *One,* P. M. *We are in full view of the low coast of South Carolina.* The great problem is accomplished. We have crossed the Atlantic—fairly and *easily* crossed it in a balloon! God be praised! Who shall say that anything is impossible hereafter?

—

The Journal here ceases. Some particulars of the descent were communicated, however, by Mr.

Ainsworth to Mr. Forsyth. It was nearly dead calm when the voyagers first came in view of the coast, which was immediately recognized by both the seamen, and by Mr. Osborne. The latter gentleman having acquaintances at Fort Moultrie, it was immediately resolved to descend in its vicinity. The balloon was brought over the beach (the tide being out and the sand hard, smooth, and admirably adapted for a descent,) and the grapnel let go, which took firm hold at once. The inhabitants of the island, and of the fort, thronged out, of course, to see the balloon; but it was with the greatest difficulty that any one could be made to credit the actual voyage—*the crossing of the Atlantic*. The grapnel caught at 2, P. M., precisely; and thus the whole voyage was completed in seventy-five hours; or rather less, counting from shore to shore. No serious accident occurred. No real danger was at any time apprehended. The balloon was exhausted and secured without trouble; and when the MS. from which this narrative is compiled was despatched from Charleston, the party were still at Fort Moultrie. Their farther intentions were not ascertained; but we can safely promise our readers some additional information either on Monday or in the course of the next day, at farthest.

This is unquestionably the most stupendous, the most interesting, and the most important undertaking, ever accomplished or even attempted by man. What magnificent events may ensue, it would be useless now to think of determining.

VON KEMPELEN AND HIS DISCOVERY

AFTER the very minute and elaborate paper by Arago, to say nothing of the summary in "Silliman's Journal," with the detailed statement just published by Lieutenant Maury, it will not be supposed, of course, that in offering a few hurried remarks in reference to Von Kempelen's discovery, I have any design to look at the subject in a *scientific* point of view. My object is simply, in the first place, to say a few words of Von Kempelen himself (with whom, some years ago, I had the honor of a slight personal acquaintance,) since every thing which concerns him must necessarily, at this moment, be of interest; and, in the second place, to look in a general way, and speculatively, at the *results* of the discovery.

It may be as well, however, to premise the cursory observations which I have to offer, by denying, very decidedly, what seems to be a general impression (gleaned, as usual in a case of this kind, from the newspapers,) viz.: that this discovery, astounding as it unquestionably is, is *unanticipated*.

By reference to the "Diary of Sir Humphrey Davy," (Cottle and Munroe, London, pp. 150,) it will be seen at pp. 53 and 82, that this illustrious chemist had not only conceived the idea now in question, but had actually made *no inconsiderable progress, experimentally*, in the very *identical analysis* now so triumphantly brought to an issue by Von Kempelen, who although he makes not the slightest allusion to it, is, *without doubt* (I say it unhesitat-

ingly, and can prove it, if required,) indebted to the "Diary" for at least the first hint of his own undertaking. Although a little technical, I cannot refrain from appending two passages from the "Diary," with one of Sir Humphrey's equations. [As we have not the algebraic signs necessary, and as the "Diary" is to be found at the Athenæum Library, we omit here a small portion of Mr. Poe's manuscript.—Ed.]

The paragraph from the "Courier and Enquirer," which is now going the rounds of the press, and which purports to claim the invention for a Mr. Kissam, of Brunswick, Maine, appears to me, I confess, a little apocryphal, for several reasons; although there is nothing either impossible or very improbable in the statement made. I need not go into details. My opinion of the paragraph is founded principally upon its *manner*. It does not *look* true. Persons who are narrating *facts*, are seldom so particular as Mr. Kissam seems to be, about day and date and precise location. Besides, if Mr. Kissam actually *did* come upon the discovery he says he did, at the period designated—nearly eight years ago—how happens it that he took no steps, *on the instant*, to reap the immense benefits which the merest bumpkin must have known would have resulted to him individually, if not to the world at large, from the discovery? It seems to me quite incredible that any man, of common understanding, could have discovered what Mr. Kissam says he did, and yet have subsequently acted so like a baby—so like an owl—as Mr. Kissam *admits* that he did. By-the-way, who *is* Mr. Kissam? and is not the whole paragraph in the "Courier and Enquirer" a fabrication got up to "make a talk?" It must be confessed that it has

an amazingly moon-hoax-y air. Very little dependence is to be placed upon it, in my humble opinion; and if I were not well aware, from experience, how very easily men of science are *mystified*, on points out of their usual range of inquiry, I should be profoundly astonished at finding so eminent a chemist as Professor Draper, discussing Mr. Kissam's (or is it Mr. Quizzem's?) pretensions to this discovery, in so serious a tone.

But to return to the "Diary" of Sir Humphrey Davy. This pamphlet was *not* designed for the public eye, even upon the decease of the writer, as any person at all conversant with authorship may satisfy himself at once by the slightest inspection of the style. At page 13, for example, near the middle, we read, in reference to his researches about the protoxide of azote: "In less than half a minute the respiration being continued, diminished gradually and *were* succeeded by analogous to gentle pressure on all the muscles." That the *respiration* was not "diminished," is not only clear by the subsequent context, but by the use of the plural, "were." The sentence, no doubt, was thus intended: "In less than half a minute, the respiration [being continued, these feelings] diminished gradually, and were succeeded by [a sensation] analogous to gentle pressure on all the muscles." A hundred similar instances go to show that the MS. so inconsiderately published, was merely a *rough note-book*, meant only for the writer's own eye; but an inspection of the pamphlet will convince almost any thinking person of the truth of my suggestion. The fact is, Sir Humphrey Davy was about the last man in the world to *commit himself* on scientific topics. Not only had he a more than ordinary dislike to quackery, but he was morbidly afraid of *appearing*

empirical; so that, however fully he might have been convinced that he was on the right track in the matter now in question, he would never have spoken *out*, until he had every thing ready for the most practical demonstration. I verily believe that his last moments would have been rendered wretched, could he have suspected that his wishes in regard to burning this "Diary" (full of crude speculations) would have been unattended to; as, it seems, they were. I say "his wishes," for that he meant to include this note-book among the miscellaneous papers directed "to be burnt," I think there can be no manner of doubt. Whether it escaped the flames by good fortune or by bad, yet remains to be seen. That the passages quoted above, with the other similar ones referred to, gave Von Kempelen *the hint*, I do not in the slightest degree question; but I repeat, it yet remains to be seen whether this momentous discovery itself (*momentous* under any circumstances,) will be of service or disservice to mankind at large. That Von Kempelen and his immediate friends will reap a rich harvest, it would be folly to doubt for a moment. They will scarcely be so weak as not to "*realize*," in time, by large purchases of houses and land, with other property of *intrinsic* value.

In the brief account of Von Kempelen which appeared in the "Home Journal," and has since been extensively copied, several misapprehensions of the German original seem to have been made by the translator, who professes to have taken the passage from a late number of the Presburg "Schnellpost." "*Viele*" has evidently been misconceived (as it often is,) and what the translator renders by "sorrows," is probably "*lieden*," which, in its true version, "sufferings," would give a totally different

complexion to the whole account; but, of course, much of this is merely guess, on my part.

Von Kempelen, however, is by no means "a misanthrope," in appearance, at least, whatever he may be in fact. My acquaintance with him was casual altogether; and I am scarcely warranted in saying that I know him at all; but to have seen and conversed with a man of so *prodigious* a notoriety as he has attained, or *will* attain in a few days, is not a small matter, as times go.

"The Literary World" speaks of him, confidently, as a *native* of Presburg (misled, perhaps, by the account in the "Home Journal,") but I am pleased in being able to state *positively*, since I have it from his own lips, that he was born in Utica, in the State of New York, although both his parents, I believe, are of Presburg descent. The family is connected, in some way, with Mäelzer, of Automaton-chess-player memory. [If we are not mistaken, the name of the *inventor* of the chess-player was either Kempelen, Von Kempelen, or something like it.—Ed.] In person, he is short and stout, with large, *fat*, blue eyes, sandy hair and whiskers, a wide but pleasing mouth, fine teeth, and I think a Roman nose. There is some defect in one of his feet. His address is frank, and his whole manner noticeable for *bonhommie*. Altogether, he looks, speaks and acts as little like "a misanthrope" as any man I ever saw. We were fellow-sojourners for a week, about six years ago, at Earl's Hotel, in Providence, Rhode Island; and I presume that I conversed with him, at various times, for some three or four hours altogether. His principal topics were those of the day; and nothing that fell from him led me to suspect his scientific attainments. He left the hotel before me, intending to go to New York, and thence

to Bremen; it was in the latter city that his great discovery was first made public; or, rather, it was there that he was first suspected of having made it. This is about all that I personally know of the now immortal Von Kempelen; but I have thought that even these few details would have interest for the public.

There can be little question that most of the marvellous rumors afloat about this affair, are pure inventions, entitled to about as much credit as the story of Aladdin's lamp; and yet, in a case of this kind, as in the case of the discoveries in California, it is clear that the truth *may be* stranger than fiction. The following anecdote, at least, is so well authenticated, that we may receive it implicitly.

Von Kempelen had never been even tolerably well off during his residence at Bremen; and often, it was well known, he had been put to extreme shifts, in order to raise trifling sums. When the great excitement occurred about the forgery on the house of Gutsmuth & Co., suspicion was directed toward Von Kempelen, on account of his having purchased a considerable property in Gasperitch Lane, and his refusing, when questioned, to explain how he became possessed of the purchase money. He was at length arrested, but nothing decisive appearing against him, was in the end set at liberty. The police, however, kept a strict watch upon his movements, and thus discovered that he left home frequently, taking always the same road, and invariably giving his watchers the slip in the neighborhood of that labyrinth of narrow and crooked passages known by the flash-name of the "Dondergat." Finally, by dint of great perseverence, they traced him to a garret in an old house of seven stories, in an alley called Flätplatz; and, coming upon him suddenly, found him, as they imagined, in the midst

of his counterfeiting operations. His agitation is represented as so excessive that the officers had not the slightest doubt of his guilt. After hand-cuffing him, they searched his room, or rather rooms; for it appears he occupied all the *mausarde*.

Opening into the garret where they caught him, was a closet, ten feet by eight, fitted up with some chemical apparatus, of which the object has not yet been ascertained. In one corner of the closet was a very small furnace, with a glowing fire in it, and on the fire a kind of duplicate crucible—two crucibles connected by a tube. One of these crucibles was nearly full of *lead* in a state of fusion, but not reaching up to the aperture of the tube, which was close to the brim. The other crucible had some liquid in it, which, as the officers entered, seemed to be furiously dissipating in vapor. They relate that, on finding himself taken, Von Kempelen seized the crucibles with both hands (which were encased in gloves that afterwards turned out to be asbestic), and threw the contents on the tiled floor. It was now that they hand-cuffed him; and, before proceeding to ransack the premises, they searched his person, but nothing unusual was found about him, excepting a paper parcel, in his coat pocket, containing what was afterwards ascertained to be a mixture of antimony and some *unknown substance*, in nearly, but not quite, equal proportions. All attempts at analyzing the unknown substance have, so far, failed, but that it will ultimately be analyzed, is not to be doubted.

Passing out of the closet with their prisoner, the officers went through a sort of ante-chamber, in which nothing material was found, to the chemist's sleeping-room. They here rummaged some drawers and boxes, but discovered only a few papers, of no

importance, and some good coin, silver and gold. At length, looking under the bed, they saw *a large, common hair trunk, without hinges, hasp, or lock,* and with the top lying carelessly *across* the bottom portion. Upon attempting to draw this trunk out from under the bed, they found that, with their united strength (there were three of them, all powerful men), they "could not stir it one inch." Much astonished at this, one of them crawled under the bed, and looking into the trunk, said:

"No wonder we couldn't move it—why, it's full to the brim of old bits of brass!"

Putting his feet, now, against the wall, so as to get a good purchase, and pushing with all his force, while his companions pulled with all theirs, the trunk, with much difficulty, was slid out from under the bed, and its contents examined. The supposed brass with which it was filled was all in small, smooth pieces, varying from the size of a pea to that of a dollar; but the pieces were irregular in shape, although all more or less flat—looking, upon the whole, "very much as lead looks when thrown upon the ground in a molten state, and there suffered to grow cool." Now, not one of these officers for a moment suspected this metal to be anything *but* brass. The idea of its being *gold* never entered their brains, of course; how *could* such a wild fancy have entered it? And their astonishment may be well conceived, when next day it became known, all over Bremen, that the "lot of brass" which they had carted so contemptuously to the police office, without putting themselves to the trouble of pocketing the smallest scrap, was not only gold—real gold—but gold far finer than any employed in coinage—gold, in fact, absolutely pure, virgin, without the slightest appreciable alloy!

I need not go over the details of Von Kempelen's confession (as far as it went) and release, for these are familiar to the public. That he has actually realized, in spirit and in effect, if not to the letter, the old chimera of the philosopher's stone, no sane person is at liberty to doubt. The opinions of Arago are, of course, entitled to the greatest consideration; but he is by no means infallible; and what he says of *bismuth*, in his report to the academy, must be taken *cum grano salis*. The simple truth is, that up to this period, *all* analysis has failed; and until Von Kempelen chooses to let us have the key to his own published enigma, it is more than probable that the matter will remain, for years, *in statu quo*. All that yet can fairly be said to be known, is, that "*pure gold can be made at will, and very readily, from lead, in connection with certain other substances, in kind and in proportions, unknown.*"

Speculation, of course, is busy as to the immediate and ultimate results of this discovery—a discovery which few thinking persons will hesitate in referring to an increased interest in the matter of gold generally, by the late developments in California; and this reflection brings us inevitably to another—the exceeding *inopportuneness* of Von Kempelen's analysis. If many were prevented from adventuring to California, by the mere apprehension that gold would so materially diminish in value, on account of its plentifulness in the mines there, as to render the speculation of going so far in search of it a doubtful one—what impression will be wrought *now*, upon the minds of those about to emigrate, and especially upon the minds of those actually in the mineral region, by the announcement of this astounding discovery of Von Kempelen?

a discovery which declares, in so many words, that beyond its intrinsic worth for manufacturing purposes, (whatever that worth may be), gold now is, or at least soon will be (for it cannot be supposed that Von Kempelen can *long* retain his secret) of no greater *value* than lead, and of far inferior value to silver. It is indeed, exceedingly difficult to speculate prospectively upon the consequences of the discovery; but one thing may be positively maintained—that the announcement of the discovery six months ago, would have had material influence in regard to the settlement of California.

In Europe, as yet, the most noticeable results have been a rise of two hundred per cent. in the price of lead, and nearly twenty-five per cent. in that of silver.

MESMERIC REVELATION

WHATEVER doubt may still envelop the *rationale* of mesmerism, its startling *facts* are now almost universally admitted. Of these latter, those who doubt, are your mere doubters by profession—an unprofitable and disreputable tribe. There can be no more absolute waste of time than the attempt to *prove*, at the present day, that man, by mere exercise of will, can so impress his fellow, as to cast him into an abnormal condition, of which the phenomena resemble very closely those of *death*, or at least resemble them more nearly than they do the phenomena of any other normal condition within our cognizance; that, while in this state, the person so impressed employs only with effort, and then feebly, the external organs of sense, yet perceives, with keenly refined perception, and through channels supposed unknown, matters beyond the scope of the physical organs; that, moreover, his intellectual faculties are wonderfully exalted and invigorated; that his sympathies with the person so impressing him are profound; and, finally, that his susceptibility to the impression increases with its frequency, while, in the same proportion, the peculiar phenomena elicited are more extended and more *pronounced*.

I say that these—which are the laws of mesmerism in its general features—it would be supererogation to demonstrate; nor shall I inflict upon my readers so needless a demonstration to-day. My purpose at present is a very different one indeed.

I am impelled, even in the teeth of a world of prejudice, to detail without comment the very remarkable substance of a colloquy, occurring between a sleep-waker and myself.

I had been long in the habit of mesmerizing the person in question, (Mr. Vankirk,) and the usual acute susceptibility and exaltation of the mesmeric perception had supervened. For many months he had been laboring under confirmed phthisis, the more distressing effects of which had been relieved by my manipulations; and on the night of Wednesday, the fifteenth instant, I was summoned to his bedside.

The invalid was suffering with acute pain in the region of the heart, and breathed with great difficulty, having all the ordinary symptoms of asthma. In spasms such as these he had usually found relief from the application of mustard to the nervous centres, but to-night this had been attempted in vain.

As I entered his room he greeted me with a cheerful smile, and although evidently in much bodily pain, appeared to be, mentally, quite at ease.

"I sent for you to-night," he said, "not so much to administer to my bodily ailment, as to satisfy me concerning certain psychal impressions which, of late, have occasioned me much anxiety and surprise. I need not tell you how sceptical I have hitherto been on the topic of the soul's immortality. I cannot deny that there has always existed, as if in that very soul which I have been denying, a vague half-sentiment of its own existence. But this half-sentiment at no time amounted to conviction. With it my reason had nothing to do. All attempts at logical inquiry resulted, indeed, in leaving me

more sceptical than before. I had been advised to study Cousin. I studied him in his own works as well as in those of his European and American echoes. The 'Charles Elwood' of Mr. Brownson, for example, was placed in my hands. I read it with profound attention. Throughout I found it logical, but the portions which were not *merely* logical were unhappily the initial arguments of the disbelieving hero of the book. In his summing up it seemed evident to me that the reasoner had not even succeeded in convincing himself. His end had plainly forgotten his beginning, like the government of Trinculo. In short, I was not long in perceiving that if man is to be intellectually convinced of his own immortality, he will never be so convinced by the mere abstractions which have been so long the fashion of the moralists of England, of France, and of Germany. Abstractions may amuse and exercise, but take no hold on the mind. Here upon earth, at least, philosophy, I am persuaded, will always in vain call upon us to look upon qualities as things. The will may assent—the soul—the intellect, never.

"I repeat, then, that I only half felt, and never intellectually believed. But latterly there has been a certain deepening of the feeling, until it has come so nearly to resemble the acquiescence of reason, that I find it difficult to distinguish between the two. I am enabled, too, plainly to trace this effect to the mesmeric influence. I cannot better explain my meaning than by the hypothesis that the mesmeric exaltation enables me to perceive a train of ratiocination which, in my abnormal existence, convinces, but which, in full accordance with the mesmeric phenomena, does not extend, except through its *effect*, into my normal condition. In sleep-waking,

the reasoning and its conclusion—the cause and its effect—are present together. In my natural state, the cause vanishing, the effect only, and perhaps only partially, remains.

"These considerations have led me to think that some good results might ensue from a series of well-directed questions propounded to me while mesmerized. You have often observed the profound self-cognizance evinced by the sleep-waker—the extensive knowledge he displays upon all points relating to the mesmeric condition itself; and from this self-cognizance may be deduced hints for the proper conduct of a catechism."

I consented of course to make this experiment. A few passes threw Mr. Vankirt into the mesmeric sleep. His breathing became immediately more easy, and he seemed to suffer no physical uneasiness. The following conversation then ensued:—V. in the dialogue representing the patient, and P. myself.

P. Are you asleep?

V. Yes—no; I would rather sleep more soundly.

P. [*After a few more passes.*] Do you sleep now?

V. Yes.

P. How do you think your present illness will result?

V. [*After a long hesitation and speaking as if with effort.*] I must die.

P. Does the idea of death afflict you?

V. [*Very quickly.*] No—no!

P. Are you pleased with the prospect?

V. If I were awake I should like to die, but now it is no matter. The mesmeric condition is so near death as to content me.

P. I wish you would explain yourself, Mr. Vankirk.

V. I am willing to do so, but it requires more effort than I feel able to make. You do not question me properly.

P. What then shall I ask?

V. You must begin at the beginning.

P. The beginning! but where is the beginning?

V. You know that the beginning is God. [*This was said in a low, fluctuating tone, and with every sign of the most profound veneration.*]

P. What then is God?

V. [*Hesitating for many minutes.*] I cannot tell.

P. Is not God spirit?

V. While I was awake I knew what you meant by "spirit," but now it seems only a word—such for instance as truth, beauty—a quality, I mean.

P. Is not God immaterial?

V. There is no immateriality—it is a mere word. That which is not matter, is not at all—unless qualities are things.

P. Is God, then, material?

V. No. [*This reply startled me very much.*]

P. What then is he?

V. [*After a long pause, and mutteringly.*] I see—but it is a thing difficult to tell. [*Another long pause.*] He is not spirit, for he exists. Nor is he matter, *as you understand it.* But there are *gradations* of matter of which man knows nothing; the grosser impelling the finer, the finer pervading the grosser. The atmosphere, for example, impels the electric principle, while the electric principle permeates the atmosphere. These gradations of matter increase in rarity or fineness, until we arrive at a matter *unparticled*—without particles—indivisible—*one;* and here the law of impulsion and permeation is modified. The ultimate, or unparticled matter, not only permeates all things but impels all things—

and thus *is* all things within itself. This matter is God. What men attempt to embody in the word "thought," is this matter in motion.

P. The metaphysicians maintain that all action is reducible to motion and thinking, and that the latter is the origin of the former.

V. Yes; and I now see the confusion of idea. Motion is the action of *mind*—not of *thinking*. The unparticled matter, or God, in quiescence, is (as nearly as we can conceive it) what men call mind. And the power of self-movement (equivalent in effect to human volition) is, in the unparticled matter, the result of its unity and omniprevalence; *how* I know not, and now clearly see that I shall never know. But the unparticled matter, set in motion by a law, or quality, existing within itself, is thinking.

P. Can you give me no more precise idea of what you term the unparticled matter?

V. The matters of which man is cognizant, escape the senses in gradation. We have, for example, a metal, a piece of wood, a drop of water, the atmosphere, a gas, caloric, electricity, the luminiferous ether. Now we call all these things matter, and embrace all matter in one general definition; but in spite of this, there can be no two ideas more essentially distinct than that which we attach to a metal, and that which we attach to the luminiferous ether. When we reach the latter, we feel an almost irresistible inclination to class it with spirit, or with nihility. The only consideration which restrains us is our conception of its atomic constitution; and here, even, we have to seek aid from our notion of an atom, as something possessing in infinite minuteness, solidity, palpability, weight. Destroy the idea of the atomic constitution and we should no longer be able to regard the ether as an

entity, or at least as matter. For want of a better word we might term it spirit. Take, now, a step beyond the luminiferous ether—conceive a matter as much more rare than the ether, as this ether is more rare than the metal, and we arrive at once (in spite of all the school dogmas) at a unique mass—an unparticled matter. For although we may admit infinite littleness in the atoms themselves, the infinitude of littleness in the spaces between them is an absurdity. There will be a point—there will be a degree of rarity, at which, if the atoms are sufficiently numerous, the interspaces must vanish, and the mass absolutely coalesce. But the consideration of the atomic constitution being now taken away, the nature of the mass inevitably glides into what we conceive of spirit. It is clear, however, that it is as fully matter as before. The truth is, it is impossible to conceive spirit, since it is impossible to imagine what is not. When we flatter ourselves that we have formed its conception, we have merely deceived our understanding by the consideration of infinitely rarified matter.

P. There seems to me an insurmountable objection to the idea of absolute coalescence;—and that is the very slight resistance experienced by the heavenly bodies in their revolutions through space—a resistance now ascertained, it is true, to exist in *some* degree, but which is, nevertheless, so slight as to have been quite overlooked by the sagacity even of Newton. We know that the resistance of bodies is, chiefly, in proportion to their density. Absolute coalescence is absolute density. Where there are no interspaces, there can be no yielding. An ether, absolutely dense, would put an infinitely more effectual stop to the progress of a star than would an ether of adamant or of iron.

V. Your objection is answered with an ease which is nearly in the ratio of its apparent unanswerability. —As regards the progress of the star, it can make no difference whether the star passes through the ether *or the ether through it.* There is no astronomical error more unaccountable than that which reconciles the known retardation of the comets with the idea of their passage through an ether: for, however rare this ether be supposed, it would put a stop to all sidereal revolution in a very far briefer period than has been admitted by those astronomers who have endeavored to slur over a point which they found it impossible to comprehend. The retardation actually experienced is, on the other hand, about that which might be expected from the *friction* of the ether in the instantaneous passage through the orb. In the one case, the retarding force is momentary and complete within itself—in the other it is endlessly accumulative.

P. But in all this—in this identification of mere matter with God—is there nothing of irreverence? [*I was forced to repeat this question before the sleep-waker fully comprehended my meaning.*]

V. Can you say *why* matter should be less reverenced than mind? But you forget that the matter of which I speak is, in all respects, the very "mind" or "spirit" of the schools, so far as regards its high capacities, and is, moreover, the "matter" of these schools at the same time. God, with all the powers attributed to spirit, is but the perfection of matter.

P. You assert, then, that the unparticled matter, in motion, is thought?

V. In general, this motion is the universal thought of the universal mind. This thought creates. All created things are but the thoughts of God.

P. You say, "in general."

V. Yes. The universal mind is God. For new individualities, *matter* is necessary.

P. But you now speak of "mind" and "matter" as do the metaphysicians.

V. Yes—to avoid confusion. When I say "mind," I mean the unparticled or ultimate matter; by "matter," I intend all else.

P. You were saying that "for new individualities matter is necessary."

V. Yes; for mind, existing unincorporate, is merely God. To create individual, thinking beings, it was necessary to incarnate portions of the divine mind. Thus man is individualized. Divested of corporate investiture, he were God. Now, the particular motion of the incarnated portions of the unparticled matter is the thought of man; as the motion of the whole is that of God.

P. You say that divested of the body man will be God?

V. [*After much hesitation.*] I could not have said this; it is an absurdity.

P. [*Referring to my notes.*] You *did* say that "divested of corporate investiture man were God."

V. And this is true. Man thus divested *would be* God—would be unindividualized. But he can never be thus divested—at least never *will be*—else we must imagine an action of God returning upon itself—a purposeless and futile action. Man is a creature. Creatures are thoughts of God. It is the nature of thought to be irrevocable.

P. I do not comprehend. You say that man will never put off the body?

V. I say that he will never be bodiless.

P. Explain.

V. There are two bodies—the rudimental and the complete; corresponding with the two con-

ditions of the worm and the butterfly. What we call "death," is but the painful metamorphosis. Our present incarnation is progressive, preparatory, temporary. Our future is perfected, ultimate, immortal. The ultimate life is the full design.

P. But of the worm's metamorphosis we are palpably cognizant.

V. *We*, certainly—but not the worm. The matter of which our rudimental body is composed, is within the ken of the organs of that body; or, more distinctly, our rudimental organs are adapted to the matter of which is formed the rudimental body; but not to that of which the ultimate is composed. The ultimate body thus escapes our rudimental senses, and we perceive only the shell which falls, in decaying, from the inner form; not that inner form itself; but this inner form, as well as the shell, is appreciable by those who have already acquired the ultimate life.

P. You have often said that the mesmeric state very nearly resembles death. How is this?

V. When I say that it resembles death, I mean that it resembles the ultimate life; for when I am entranced the senses of my rudimental life are in abeyance, and I perceive external things directly, without organs, through a medium which I shall employ in the ultimate, unorganized life.

P. Unorganized?

V. Yes; organs are contrivances by which the individual is brought into sensible relation with particular classes and forms of matter, to the exclusion of other classes and forms. The organs of man are adapted to his rudimental condition, and to that only; his ultimate condition, being unorganized, is of unlimited comprehension in all points but one—the nature of the volition of God—that

is to say, the motion of the unparticled matter. You will have a distinct idea of the ultimate body by conceiving it to be entire brain. This it is *not;* but a conception of this nature will bring you near a comprehension of what it *is*. A luminous body imparts vibration to the luminiferous ether. The vibrations generate similar ones within the retina; these again communicate similar ones to the optic nerve. The nerve conveys similar ones to the brain; the brain, also, similar ones to the unparticled matter which permeates it. The motion of this latter is thought, of which perception is the first undulation. This is the mode by which the mind of the rudimental life communicates with the external world; and this external world is, to the rudimental life, limited, through the idiosyncrasy of its organs. But in the ultimate, unorganized life, the external world reaches the whole body, (which is of a substance having affinity to brain, as I have said,) with no other intervention than that of an infinitely rarer ether than even the luminiferous; and to this ether—in unison with it—the whole body vibrates, setting in motion the unparticled matter which permeates it. It is to the absence of idiosyncratic organs, therefore, that we must attribute the nearly unlimited perception of the ultimate life. To rudimental beings, organs are the cages necessary to confine them until fledged.

P. You speak of rudimental "beings." Are there other rudimental thinking beings than man?

V. The multitudinous conglomeration of rare matter into nebulæ, planets, suns, and other bodies which are neither nebulæ, suns, nor planets, is for the sole purpose of supplying *pabulum* for the idiosyncrasy of the organs of an infinity of rudimental beings. But for the necessity of the rudi-

mental, prior to the ultimate life, there would have been no bodies such as these. Each of these is tenanted by a distinct variety of organic, rudimental, thinking creatures. In all, the organs vary with the features of the place tenanted. At death, or metamorphosis, these creatures, enjoying the ultimate life—immortality—and cognizant of all secrets but *the one*, act all things and pass everywhere by mere volition:—in dwelling, not the stars, which to us seem the sole palpabilities, and for the accommodation of which we blindly deem space created—but that SPACE itself—that infinity of which the truly substantive vastness swallows up the star-shadows—blotting them out as non-entities from the perception of the angels.

P. You say that "but for the *necessity* of the rudimental life" there would have been no stars. But why this necessity?

V. In the inorganic life, as well as in the inorganic matter generally, there is nothing to impede the action of one simple *unique* law—the Divine Volition. With the view of producing impediment, the organic life and matter, (complex, substantial, and law-encumbered,) were contrived.

P. But again—why need this impediment have been produced?

V. The result of law inviolate is perfection—right—negative happiness. The result of law violate is imperfection, wrong, positive pain. Through the impediments afforded by the number, complexity, and substantiality of the laws of organic life and matter, the violation of law is rendered, to a certain extent, practicable. Thus pain, which in the inorganic life is impossible, is possible in the organic.

P. But to what good end is pain thus rendered possible?

V. All things are either good or bad by comparison. A sufficient analysis will show that pleasure, in all cases, is but the contrast of pain. *Positive* pleasure is a mere idea. To be happy at any one point we must have suffered at the same. Never to suffer would have been never to have been blessed. But it has been shown that, in the inorganic life, pain cannot be; thus the necessity for the organic. The pain of the primitive life of Earth, is the sole basis of the bliss of the ultimate life in Heaven.

P. Still, there is one of your expressions which I find it impossible to comprehend—"the truly *substantive* vastness of infinity."

V. This, probably, is because you have no sufficiently generic conception of the term "*substance*" itself. We must not regard it as a quality, but as a sentiment:—it is the perception, in thinking beings, of the adaptation of matter to their organization. There are many things on the Earth, which would be nihility to the inhabitants of Venus—many things visible and tangible in Venus, which we could not be brought to appreciate as existing at all. But to the inorganic beings—to the angels—the whole of the unparticled matter is substance; that is to say, the whole of what we term "space" is to them the truest substantiality;—the stars, meantime, through what we consider their materiality, escaping the angelic sense, just in proportion as the unparticled matter, through what we consider its immateriality, eludes the organic.

As the sleep-waker pronounced these latter words, in a feeble tone, I observed on his countenance a singular expression, which somewhat alarmed me, and induced me to awake him at once. No sooner had I done this, than, with a bright smile irradiating all his features, he fell back upon his pillow and

expired. I noticed that in less than a minute afterward his corpse had all the stern rigidity of stone. His brow was of the coldness of ice. Thus, ordinarily, should it have appeared, only after long pressure from Azrael's hand. Had the sleep-waker, indeed, during the latter portion of his discourse, been addressing me from out the region of the shadows?

THE CASE OF M. VALDEMAR

THE FACTS IN THE CASE OF M. VALDEMAR

OF course I shall not pretend to consider it any matter for wonder, that the extraordinary case of M. Valdemar has excited discussion. It would have been a miracle had it not—especially under the circumstances. Through the desire of all parties concerned, to keep the affair from the public, at least for the present, or until we had farther opportunities for investigation—through our endeavors to effect this—a garbled or exaggerated account made its way into society, and became the source of many unpleasant misrepresentations; and, very naturally, of a great deal of disbelief.

It is now rendered necessary that I give the *facts*—as far as I comprehend them myself. They are, succinctly, these:

My attention, for the last three years, had been repeatedly drawn to the subject of Mesmerism; and, about nine months ago, it occurred to me, quite suddenly, that in the series of experiments made hitherto, there had been a very remarkable and most unaccountable omission:—no person had as yet been mesmerized *in articulo mortis*. It remained to be seen, first, whether, in such condition, there existed in the patient any susceptibility to the magnetic influence; secondly, whether, if any existed, it was impaired or increased by the condition; thirdly, to what extent, or for how long a period,

the encroachments of Death might be arrested by the process. There were other points to be ascertained, but these most excited my curiosity—the last in especial, from the immensely important character of its consequences.

In looking around me for some subject by whose means I might test these particulars, I was brought to think of my friend, M. Ernest Valdemar, the well-known compiler of the "Bibliotheca Forensica," and author (under the *nom de plume* of Issachar Marx) of the Polish versions of "Wallenstein" and "Gargantua." M. Valdemar, who has resided principally at Harlem, N. Y., since the year 1839, is (or was) particularly noticeable for the extreme spareness of his person—his lower limbs much resembling those of John Randolph; and, also, for the whiteness of his whiskers, in violent contrast to the blackness of his hair—the latter, in consequence, being very generally mistaken for a wig. His temperament was markedly nervous, and rendered him a good subject for mesmeric experiment. On two or three occasions I had put him to sleep with little difficulty, but was disappointed in other results which his peculiar constitution had naturally led me to anticipate. His will was at no period positively, or thoroughly, under my control, and in regard to *clairvoyance*, I could accomplish with him nothing to be relied upon. I always attributed my failure at these points to the disordered state of his health. For some months previous to my becoming acquainted with him, his physicians had declared him in a confirmed phthisis. It was his custom, indeed, to speak calmly of his approaching dissolution, as of a matter neither to be avoided nor regretted.

When the ideas to which I have alluded first

occurred to me, it was of course very natural that I should think of M. Valdemar. I knew the steady philosophy of the man too well to apprehend any scruples from *him;* and he had no relatives in America who would be likely to interfere. I spoke to him frankly upon the subject; and, to my surprise, his interest seemed vividly excited. I say to my surprise; for, although he had always yielded his person freely to my experiments, he had never before given me any tokens of sympathy with what I did. His disease was of that character which would admit of exact calculation in respect to the epoch of its termination in death; and it was finally arranged between us that he would send for me about twenty-four hours before the period announced by his physicians as that of his decease.

It is now rather more than seven months since I received, from M. Valdemar himself, the subjoined note:

"My dear P——,

"You may as well come *now.* D—— and F—— are agreed that I cannot hold out beyond to-morrow midnight; and I think they have hit the time very nearly.

"Valdemar."

I received this note within half an hour after it was written, and in fifteen minutes more I was in the dying man's chamber. I had not seen him for ten days, and was appalled by the fearful alteration which the brief interval had wrought in him. His face wore a leaden hue; the eyes were utterly lustreless; and the emaciation was so extreme, that the skin had been broken through by the cheek-bones. His expectoration was excessive. The pulse

was barely perceptible. He retained, nevertheless, in a very remarkable manner, both his mental power and a certain degree of physical strength. He spoke with distinctness—took some palliative medicines without aid—and, when I entered the room, was occupied in penciling memoranda in a pocket-book. He was propped up in the bed by pillows. Doctors D—— and F—— were in attendance.

After pressing Valdemar's hand, I took these gentlemen aside, and obtained from them a minute account of the patient's condition. The left lung had been for eighteen months in a semi-osseous or cartilaginous state, and was, of course, entirely useless for all purposes of vitality. The right, in its upper portion, was also partially, if not thoroughly, ossified, while the lower region was merely a mass of purulent tubercles, running one into another. Several extensive perforations existed; and, at one point, permanent adhesion to the ribs had taken place. These appearances in the right lobe were of comparatively recent date. The ossification had proceeded with very unusual rapidity; no sign of it had been discovered a month before, and the adhesion had only been observed during the three previous days. Independently of the phthisis, the patient was suspected of aneurysm of the aorta; but on this point the osseous symptoms rendered an exact diagnosis impossible. It was the opinion of both physicians that M. Valdemar would die about midnight on the morrow (Sunday.) It was then seven o'clock on Saturday evening.

On quitting the invalid's bed-side to hold conversation with myself, Doctors D—— and F—— had bidden him a final farewell. It had not been their intention to return; but, at my request, they

agreed to look in upon the patient about ten the next night.

When they had gone, I spoke freely with M. Valdemar on the subject of his approaching dissolution, as well as, more particularly, of the experiment proposed. He still professed himself quite willing and even anxious to have it made, and urged me to commence it at once. A male and a female nurse were in attendance; but I did not feel myself altogether at liberty to engage in a task of this character with no more reliable witnesses than these people, in case of sudden accident, might prove. I therefore postponed operations until about eight the next night, when the arrival of a medical student, with whom I had some acquaintance, (Mr. Theodore L——l,) relieved me from farther embarrassment. It had been my design, originally, to wait for the physicians; but I was induced to proceed, first, by the urgent entreaties of M. Valdemar, and secondly, by my conviction that I had not a moment to lose, as he was evidently sinking fast.

Mr. L——l was so kind as to accede to my desire that he would take notes of all that occurred; and it is from his memoranda that what I now have to relate is, for the most part, either condensed or copied *verbatim*.

It wanted about five minutes of eight when, taking the patient's hand, I begged him to state, as distinctly as he could, to Mr. L——l, whether he (M. Valdemar,) was entirely willing that I should make the experiment of mesmerizing him in his then condition.

He replied feebly, yet quite audibly, "Yes, I wish to be mesmerized"—adding immediately afterwards, "I fear you have deferred it too long."

While he spoke thus, I commenced the passes

which I had already found most effectual in subduing him. He was evidently influenced with the first lateral stroke of my hand across his forehead; but although I exerted all my powers, no farther perceptible effect was induced until some minutes after ten o'clock, when Doctors D—— and F—— called, according to appointment. I explained to them, in a few words, what I designed, and as they opposed no objection, saying that the patient was already in the death agony, I proceeded without hesitation—exchanging, however, the lateral passes for downward ones, and directing my gaze entirely into the right eye of the sufferer.

By this time his pulse was imperceptible and his breathing was stertorous, and at intervals of half a minute.

This condition was nearly unaltered for a quarter of an hour. At the expiration of this period, however, a natural although a very deep sigh escaped the bosom of the dying man, and the stertorous breathing ceased—that is to say, its stertorousness was no longer apparent; the intervals were undiminished. The patient's extremities were of an icy coldness.

At five minutes before eleven, I perceived unequivocal signs of the mesmeric influence. The glassy roll of the eye was changed for that expression of uneasy *inward* examination which is never seen except in cases of sleep-waking, and which it is quite impossible to mistake. With a few rapid lateral passes I made the lids quiver, as in incipient sleep, and with a few more I closed them altogether. I was not satisfied, however, with this, but continued the manipulations vigorously, and with the fullest exertion of the will, until I had completely stiffened the limbs of the slumberer, after placing

them in a seemingly easy position. The legs were at full length; the arms were nearly so, and reposed on the bed at a moderate distance from the loins. The head was very slightly elevated.

When I had accomplished this, it was fully midnight, and I requested the gentlemen present to examine M. Valdemar's condition. After a few experiments, they admitted him to be in an unusually perfect state of mesmeric trance. The curiosity of both the physicians was greatly excited. Dr. D—— resolved at once to remain with the patient all night, while Dr. F—— took leave with a promise to return at daybreak. Mr. L——l and the nurses remained.

We left M. Valdemar entirely undisturbed until about three o'clock in the morning, when I approached him and found him in precisely the same condition as when Dr. F—— went away—that is to say, he lay in the same position; the pulse was imperceptible; the breathing was gentle (scarcely noticeable, unless through the application of a mirror to the lips;) the eyes were closed naturally; and the limbs were as rigid and as cold as marble. Still, the general appearance was certainly not that of death.

As I approached M. Valdemar I made a kind of half effort to influence his right arm into pursuit of my own, as I passed the latter gently to and fro above his person. In such experiments with this patient, I had never perfectly succeeded before, and assuredly I had little thought of succeeding now; but to my astonishment, his arm very readily, although feebly, followed every direction I assigned it with mine. I determined to hazard a few words or conversation.

"M. Valdemar," I said, "are you asleep?" He

made no answer, but I perceived a tremor about the lips, and was thus induced to repeat the question, again and again. At its third repetition, his whole frame was agitated by a very slight shivering; the eyelids unclosed themselves so far as to display a white line of a ball; the lips moved sluggishly, and from between them, in a barely audible whisper, issued the words:

"Yes;—asleep now. Do not wake me!—let me die so!"

I here felt the limbs and found them as rigid as ever. The right arm, as before, obeyed the direction of my hand. I questioned the sleep-waker again:

"Do you still feel pain in the breast, M. Valdemar?"

The answer now was immediate, but even less audible than before:

"No pain—I am dying."

I did not think it advisable to disturb him farther just then, and nothing more was said or done until the arrival of Dr. F——, who came a little before sunrise, and expressed unbounded astonishment at finding the patient still alive. After feeling the pulse and applying a mirror to the lips, he requested me to speak to the sleep-waker again. I did so, saying:

"M. Valdemar, do you still sleep?"

As before, some minutes elapsed ere a reply was made; and during the interval the dying man seemed to be collecting his energies to speak. At my fourth repetition of the question, he said very faintly, almost inaudibly:

"Yes; still asleep—dying."

It was now the opinion, or rather the wish, of the physicians, that M. Valdemar should be suffered to remain undisturbed in his present apparently

tranquil condition, until death should supervene—and this, it was generally agreed, must now take place within a few minutes. I concluded, however, to speak to him once more, and merely repeated my previous question.

While I spoke, there came a marked change over the countenance of the sleep-waker. The eyes rolled themselves slowly open, the pupils disappearing upwardly; the skin generally assumed a cadaverous hue, resembling not so much parchment as white paper; and the circular hectic spots which, hitherto, had been strongly defined in the centre of each cheek, *went out* at once. I use this expression, because the suddenness of their departure put me in mind of nothing so much as the extinguishment of a candle by a puff of the breath. The upper lip, at the same time, writhed itself away from the teeth, which it had previously covered completely; while the lower jaw fell with an audible jerk, leaving the mouth widely extended, and disclosing in full view the swollen and blackened tongue. I presume that no member of the party then present had been unaccoustomed to death-bed horrors; but so hideous beyond conception was the appearance of M. Valdemar at this moment, that there was a general shrinking back from the region of the bed.

I now feel that I have reached a point of this narrative at which every reader will be startled into positive disbelief. It is my business, however, simply to proceed.

There was no longer the faintest sign of vitality in M. Valdemar; and concluding him to be dead, we were consigning him to the charge of the nurses, when a strong vibratory motion was observable in the tongue. This continued for perhaps a

minute. At the expiration of this period, there issued from the distended and motionless jaws a voice—such as it would be madness in me to attempt describing. There are, indeed, two or three epithets which might be considered as applicable to it in part; I might say, for example, that the sound was harsh, and broken and hollow; but the hideous whole is indescribable, for the simple reason that no similar sounds have ever jarred upon the ear of humanity. There were two particulars, nevertheless, which I thought then, and still think, might fairly be stated as characteristic of the intonation—as well adapted to convey some idea of its unearthly peculiarity. In the first place, the voice seemed to reach our ears—at least mine—from a vast distance, or from some deep cavern within the earth. In the second place, it impressed me (I fear, indeed, that it will be impossible to make myself comprehended) as gelatinous or glutinous matters impress the sense of touch.

I have spoken both of "sound" and of "voice." I mean to say that the sound was one of distinct—of even wonderfully, thrillingly distinct—syllabification. M. Valdemar *spoke*—obviously in reply to the question I had propounded to him a few minutes before. I had asked him, it will be remembered, if he still slept. He now said:

"Yes;—no;—I *have been* sleeping—and now—now—*I am dead.*"

No person present even affected to deny, or attempted to repress, the unutterable, shuddering horror which these few words, thus uttered, were so well calculated to convey. Mr. L——l (the student) swooned. The nurses immediately left the chamber, and could not be induced to return. My own impressions I would not pretend to render intelligible

to the reader. For nearly an hour, we busied ourselves, silently—without the utterance of a word—in endeavors to revive Mr. L——l. When he came to himself, we addressed ourselves again to an investigation of M. Valdemar's condition.

It remained in all respects as I have last described it, with the exception that the mirror no longer afforded evidence of respiration. An attempt to draw blood from the arm failed. I should mention, too, that this limb was no farther subject to my will. I endeavored in vain to make it follow the direction of my hand. The only real indication, indeed, of the mesmeric influence, was now found in the vibratory movement of the tongue, whenever I addressed M. Valdemar a question. He seemed to be making an effort to reply, but had no longer sufficient volition. To queries put to him by any other person than myself he seemed utterly insensible—although I endeavored to place each member of the company in mesmeric *rapport* with him. I believe that I have now related all that is necessary to an understanding of the sleep-waker's state at this epoch. Other nurses were procured; and at ten o'clock I left the house in company with the two physicians and Mr. L——l.

In the afternoon we all called again to see the patient. His condition remained precisely the same. We had now some discussion as to the propriety and feasibility of awakening him; but we had little difficulty in agreeing that no good purpose would be served by so doing. It was evident that, so far, death (or what is usually termed death) had been arrested by the mesmeric process. It seemed clear to us all that to awaken M. Valdemar would be merely to insure his instant, or at least his speedy dissolution.

From this period until the close of last week—*an interval of nearly seven months*—we continued to make daily calls at M. Valdemar's house, accompanied, now and then, by medical and other friends. All this time the sleep-waker remained *exactly* as I have last described him. The nurses' attentions were continual.

It was on Friday last that we finally resolved to make the experiment of awakening, or attempting to awaken him; and it is the (perhaps) unfortunate result of this latter experiment which has given rise to so much discussion in private circles—to so much of what I cannot help thinking unwarranted popular feeling.

For the purpose of relieving M. Valdemar from the mesmeric trance, I made use of the customary passes. These, for a time, were unsuccessful. The first indication of revival was afforded by a partial descent of the iris. It was observed, as especially remarkable, that this lowering of the pupil was accompanied by the profuse out-flowing of a yellowish ichor (from beneath the lids) of a pungent and highly offensive odor.

It was now suggested that I should attempt to influence the patient's arm, as heretofore. I made the attempt and failed. Dr. F—— then intimated a desire to have me put a question. I did so, as follows:

"M. Valdemar, can you explain to us what are your feelings or wishes now?"

There was an instant return of the hectic circles on the cheeks; the tongue quivered, or rather rolled violently in the mouth (although the jaws and lips remained rigid as before;) and at length the same hideous voice which I have already described, broke forth:

"For God's sake!—quick!—quick!—put me to sleep—or, quick!—waken me!—quick!—*I say to you that I am dead!*"

I was thoroughly unnerved, and for an instant remained undecided what to do. At first I made an endeavor to re-compose the patient; but, failing in this through total abeyance of the will, I retraced my steps and as earnestly struggled to awaken him. In this attempt I soon saw that I should be successful—or at least I soon fancied that my success would be complete—and I am sure that all in the room were prepared to see the patient awaken.

For what really occurred, however, it is quite impossible that any human being could have been prepared.

As I rapidly made the mesmeric passes, amid ejaculations of "dead! dead!" absolutely *bursting* from the tongue and not from the lips of the sufferer, his whole frame at once—within the space of a single minute, or even less, shrunk—crumbled—absolutely *rotted* away beneath my hands. Upon the bed, before that whole company, there lay a nearly liquid mass of loathsome—of detestable putrescence.

THE THOUSAND-AND-SECOND TALE OF SCHEHERAZADE

Truth is stranger than fiction.—*Old Saying*

HAVING had occasion, lately, in the course of some Oriental investigations, to consult the *Tellmenow Isitsöornot*, a work which (like the Zohar of Simeon Jochaides) is scarcely known at all, even in Europe, and which has never been quoted, to my knowledge, by any American—if we except, perhaps, the author of the "Curiosities of American Literature;"—having had occasion, I say, to turn over some pages of the first-mentioned very remarkable work, I was not a little astonished to discover that the literary world has hitherto been strangely in error respecting the fate of the vizier's daughter, Scheherazade, as that fate is depicted in the "Arabian Nights;" and that the *denouement* there given, if not altogether inaccurate, as far as it goes, is at least to blame in not having gone very much farther.

For full information on this interesting topic, I must refer the inquisitive reader to the "Isitsöornot" itself; but, in the mean time, I shall be pardoned for giving a summary of what I there discovered.

It will be remembered, that, in the usual version of the tales, a certain monarch, having good cause to be jealous of his queen, not only puts her to death, but makes a vow, by his beard and the prophet, to espouse each night the most beautiful maiden in his dominions, and the next morning to deliver her up to the executioner.

Having fulfilled this vow for many years to the letter, and with a religious punctuality and method that conferred great credit upon him as a man of devout feelings and excellent sense, he was interrupted one afternoon (no doubt at his prayers) by a visit from his grand vizier, to whose daughter, it appears, there had occurred an idea.

Her name was Scheherazade, and her idea was, that she would either redeem the land from the depopulating tax upon its beauty, or perish, after the approved fashion of all heroines, in the attempt.

Accordingly, and although we do not find it to be leap-year, (which makes the sacrifice more meritorious,) she deputes her father, the grand vizier, to make an offer to the king of her hand. This hand the king eagerly accepts—(he had intended to take it at all events, and had put off the matter from day to day, only through fear of the vizier,)—but, in accepting it now, he gives all parties very distinctly to understand, that, grand vizier or no grand vizier, he has not the slightest design of giving up one iota of his vow or of his privileges. When, therefore, the fair Scheherazade insisted upon marrying the king, and did actually marry him despite her father's excellent advice not to do anything of the kind—when she would and did marry him, I say, will I nill I, it was with her beautiful black eyes as thoroughly open as the nature of the case would allow.

It seems, however, that this politic damsel (who had been reading Machiavelli, beyond doubt,) had a very ingenious little plot in her mind. On the night of the wedding, she contrived, upon I forget what specious pretence, to have her sister occupy a couch sufficiently near that of the royal pair to admit of easy conversation from bed to bed; and,

a little before cock-crowing, she took care to awaken the good monarch, her husband, (who bore her none the worse will because he intended to wring her neck on the morrow,)—she managed to awaken him, I say, (although, on account of a capital conscience and an easy digestion, he slept well,) by the profound interest of a story (about a rat and a black cat, I think,) which she was narrating (all in an under-tone, of course,) to her sister. When the day broke, it so happened that this history was not altogether finished, and that Scheherazade, in the nature of things, could not finish it just then, since it was high time for her to get up and be bowstrung—a thing very little more pleasant than hanging, only a trifle more genteel!

The king's curiosity, however, prevailing, I am sorry to say, even over his sound religious principles, induced him for this once to postpone the fulfilment of his vow until next morning, for the purpose and with the hope of hearing that night how it fared in the end with the black cat (a black cat, I think it was) and the rat.

The night having arrived, however, the lady Scheherazade not only put the finishing stroke to the black cat and the rat, (the rat was blue,) but before she well knew what she was about, found herself deep in the intricacies of a narration, having reference (if I am not altogether mistaken) to a pink horse (with green wings) that went, in a violent manner, by clockwork, and was wound up with an indigo key. With this history the king was even more profoundly interested than with the other—and, as the day broke before its conclusion, (notwithstanding all the queen's endeavors to get through with it in time for the bowstringing,) there was again no resource but to postpone that ceremony as before,

for twenty-four hours. The next night there happened a similar accident with a similar result; and then the next—and then again the next; so that, in the end, the good monarch, having been unavoidably deprived of all opportunity to keep his vow during a period of no less than one thousand and one nights, either forgets it altogether by the expiration of this time, or gets himself absolved of it in the regular way, or, (what is more probable) breaks it outright, as well as the head of his father confessor. At all events, Scheherazade, who, being lineally descended from Eve, fell heir, perhaps, to the whole seven baskets of talk, which the latter lady, we all know, picked up under the trees in the garden of Eden; Scheherazade, I say, finally triumphed, and the tariff upon beauty was repealed.

Now, this conclusion (which is that of the story as we have it upon record) is, no doubt, excessively proper and pleasant—but, alas! like a great many pleasant things, is more pleasant than true; and I am indebted altogether to the "Isitsöornot" for the means of correcting the error. "*Le mieux*," says a French proverb, "*est l'ennemi du bien*," and, in mentioning that Scheherazade had inherited the seven baskets of talk, I should have added, that she put them out at compound interest until they amounted to seventy-seven.

"My dear sister," said she, on the thousand-and-second night, (I quote the language of the "Isitsöornot" at this point, *verbatim*,) "my dear sister," said she, "now that all this little difficulty about the bowstring has blown over, and that this odious tax is so happily repealed, I feel that I have been guilty of great indiscretion in withholding from you and the king (who, I am sorry to say, snores—a

thing no gentleman would do,) the full conclusion of the history of Sinbad the sailor. This person went through numerous other and more interesting adventures than those which I related; but the truth is, I felt sleepy on the particular night of their narration, and so was seduced into cutting them short—a grievous piece of misconduct, for which I only trust that Allah will forgive me. But even yet it is not too late to remedy my great neglect—and as soon as I have given the king a pinch or two in order to wake him up so far that he may stop making that horrible noise, I will forthwith entertain you (and him if he pleases) with the sequel of this very remarkable story."

Hereupon the sister of Scheherazade, as I have it from the "Isitöornot," expressed no very particular intensity of gratification; but the king having been sufficiently pinched, at length ceased snoring, and finally said "Hum!" and then "Hoo!" when the queen understanding these words (which are no doubt Arabic) to signify that he was all attention, and would do his best not to snore any more—the queen, I say, having arranged these matters to her satisfaction, re-entered thus, at once, into the history of Sinbad the sailor:

"'At length, in my old age,' (these are the words of Sinbad himself, as retailed by Scheherazade,)—'at length, in my old age, and after enjoying many years of tranquillity at home, I became once more possessed with a desire of visiting foreign countries; and one day, without acquainting any of my family with my design, I packed up some bundles of such merchandise as was most precious and least bulky, and, engaging a porter to carry them, went with him down to the sea-shore, to await the arrival of any chance vessel that might convey me out of the

kingdom into some reigon which I had not as yet explored.

"'Having deposited the packages upon the sands, we sat down beneath some trees, and looked out into the ocean in the hope of perceiving a ship, but during several hours we saw none whatever. At length I fancied that I could hear a singular buzzing or humming sound—and the porter, after listening awhile, declared that he also could distinguish it. Presently it grew louder, and then still louder, so that we could have no doubt that the object which caused it was approaching us. At length, on the edge of the horizon, we discovered a black speck, which rapidly increased in size until we made it out to be a vast monster, swimming with a great part of its body above the surface of the sea. It came towards us with inconceivable swiftness, throwing up huge waves of foam around its breast, and illuminating all that part of the sea through which it passed, with a long line of fire that extended far off into the distance.

"'As the thing drew near we saw it very distinctly. Its length was equal to that of three of the loftiest trees that grow, and it was as wide as the great hall of audience in your palace, O most sublime and munificent of the caliphs. Its body, which was unlike that of ordinary fishes, was as solid as a rock, and of a jetty blackness throughout all that portion of it which floated above the water, with the exception of a narrow blood-red streak that completely begirdled it. The belly, which floated beneath the surface, and of which we could get only a glimpse now and then as the monster rose and fell with the billows, was entirely covered with metallic scales, of a color like that of the moon in misty weather. The back was flat and nearly

white, and from it there extended upwards of six spines, about half the length of the whole body.

"'This horrible creature had no mouth that we could perceive; but, as if to make up for this deficiency, it was provided with at least four score of eyes, that protruded from their sockets like those of the green dragon-fly, and were arranged all around the body in two rows, one above the other, and parallel to the blood-red streak, which seemed to answer the purpose of an eyebrow. Two or three of these dreadful eyes were much larger than the others, and had the appearance of solid gold.

"'Although this beast approached us, as I have before said, with the greatest rapidity, it must have been moved altogether by necromancy—for it had neither fins like a fish nor web-feet like a duck, nor wings like the sea-shell which is blown along in the manner of a vessel; nor yet did it writhe itself forward as do the eels. Its head and its tail were shaped precisely alike, only not far from the latter, were two small holes that served for nostrils, and through which the monster puffed out its thick breath with prodigious violence, and with a shrieking, disagreeable noise.

"'Our terror at beholding this hideous thing was very great; but it was even surpassed by our astonishment, when, upon getting a nearer look, we perceived upon the creature's back a vast number of animals about the size and shape of men, and altogether much resembling them, except that they wore no garments (as men do,) being supplied (by nature, no doubt,) with an ugly, uncomfortable covering, a good deal like cloth, but fitting so tight to the skin, as to render the poor wretches laughably awkward, and put them apparently to severe pain. On the very tips of their heads were certain

square-looking boxes, which, at first sight, I thought might have been intended to answer as turbans, but I soon discovered that they were excessively heavy and solid, and I therefore concluded they were contrivances designed, by their great weight, to keep the heads of the animals steady and safe upon their shoulders. Around the necks of the creatures were fastened black collars, (badges of servitude, no doubt,) such as we keep on our dogs, only much wider and infinitely stiffer—so that it was quite impossible for these poor victims to move their heads in any direction without moving the body at the same time; and thus they were doomed to perpetual contemplation of their noses—a view puggish and snubby in a wonderful if not positively in an awful degree.

"'When the monster had nearly reached the shore where we stood, it suddenly pushed out one of its eyes to a great extent, and emitted from it a terrible flash of fire, accompanied by a dense cloud of smoke, and a noise that I can compare to nothing but thunder. As the smoke cleared away, we saw one of the odd man-animals standing near the head of the large beast with a trumpet in his hand, through which (putting it to his mouth) he presently addressed us in loud, harsh, and disagreeable accents, that, perhaps, we should have mistaken for language, had they not come altogether through the nose.

"'Being thus evidently spoken to, I was at a loss how to reply, as I could in no manner understand what was said; and in this difficulty I turned to the porter, who was near swooning through affright, and demanded of him his opinion as to what species of monster it was, what it wanted, and what kind of creatures those were that so swarmed

upon its back. To this the porter replied, as well as he could for trepidation, that he had once before heard of this sea-beast; that it was a cruel demon, with bowels of sulphur and blood of fire, created by evil genii as the means of inflicting misery upon mankind; that the things upon its back were vermin, such as sometimes infest cats and dogs, only a little larger and more savage; and that these vermin had their uses, however evil—for, through the torture they caused the beast by their nibblings and stingings, it was goaded into that degree of wrath which was requisite to make it roar and commit ill, and so fulfil the vengeful and malicious designs of the wicked genii.

"'This account determined me to take to my heels, and, without once even looking behind me, I ran at full speed up into the hills, while the porter ran equally fast, although nearly in an opposite direction, so that, by these means, he finally made his escape with my bundles, of which I have no doubt he took excellent care—although this is a point I cannot determine, as I do not remember that I ever beheld him again.

"'For myself, I was so hotly pursued by a swarm of the men-vermin (who had come to the shore in boats) that I was very soon overtaken, bound hand and foot, and conveyed to the beast, which immediately swam out again into the middle of the sea.

"'I now bitterly repented my folly in quitting a comfortable home to peril my life in such adventures as this; but regret being useless, I made the best of my condition, and exerted myself to secure the good-will of the man-animal that owned the trumpet, and who appeared to exercise authority over its fellows. I succeeded so well in this endeavor that, in a few days, the creature bestowed upon me

various tokens of its favor, and, in the end, even went to the trouble of teaching me the rudiments of what it was vain enough to denominate its language; so that, at length, I was enabled to converse with it readily, and came to make it comprehend the ardent desire I had of seeing the world.

"'*Washish squashish squeak, Sinbad, hey-diddle diddle, grunt unt grumble, hiss, fiss, whiss,*' said he to me, one day after dinner—but I beg a thousand pardons, I had forgotten that your majesty is not conversant with the dialect of the Cock-neighs, (so the man-animals were called; I presume because their language formed the connecting link between that of the horse and that of the rooster.) With your permission, I will translate. '*Washish squashish,*' and so forth:—that is to say, 'I am happy to find, my dear Sinbad, that you are really a very excellent fellow; we are now about doing a thing which is called circumnavigating the globe; and since you are so desirous of seeing the world, I will strain a point and give you a free passage upon the back of the beast.'"

When the Lady Scheherazade had proceeded thus far, relates the "Isitsöornot," the king turned over from his left side to his right, and said—

"It is, in fact, *very* surprising, my dear queen, that you omitted, hitherto, these latter adventures of Sinbad. Do you know I think them exceedingly entertaining and strange?"

The king having thus expressed himself, we are told, the fair Scheherazade resumed her history in the following words:—

"Sinbad went on in this manner, with his narrative—'I thanked the man-animal for its kindness, and soon found myself very much at home on the beast, which swam at a prodigious rate through the

ocean; although the surface of the latter is, in that part of the world, by no means flat, but round like a pomegranate, so that we went—so to say—either up hill or down hill all the time.'"

"That, I think, was very singular," interrupted the king.

"Nevertheless, it is quite true," replied Scheherazade.

"I have my doubts," rejoined the king; "but, pray, be so good as to go on with the story."

"I will," said the queen. 'The beast,' continued Sinbad, 'swam, as I have related, up hill and down hill, until, at length, we arrived at an island, many hundreds of miles in circumference, but which, nevertheless, had been built in the middle of the sea by a colony of little things like caterpillars.'"*

"Hum!" said the king.

"'Leaving this island,' said Sinbad—(for Scheherazade, it must be understood, took no notice of her husband's ill-mannered ejaculation)—'leaving this island, we came to another where the forests were of solid stone, and so hard that they shivered to pieces the finest-tempered axes with which we endeavored to cut them down.'"†

* The coralites.

† "One of the most remarkable natural curiosities in Texas is a petrified forest, near the head of Pasigno river. It consists of several hundred trees, in an erect position, all turned to stone. Some trees, now growing, are partly petrified. This is a startling fact for natural philosophers, and must cause them to modify the existing theory of petrifaction."—*Kennedy.*

This account, at first discredited, has since been corroborated by the discovery of a completely petrified forest, near the head waters of the Chayenne, or Chienne river, which has its source in the Black Hills of the rocky chain.

There is scarcely, perhaps, a spectacle on the surface of the globe more remarkable, either in a geological or picturesque point of view, than that presented by the petrified forest, near Cairo. The traveller, having passed the tombs of the caliphs, just beyond the gates of the city, proceeds to the southward, nearly at right angles to the road across the desert to Suez, and,

"Hum!" said the king, again; but Scheherazade, paying him no attention, continued in the language of Sinbad.

"'Passing beyond this last island, we reached a country where there was a cave that ran to the distance of thirty or forty miles within the bowels of the earth, and that contained a greater number of far more spacious and more magnificent palaces than are to be found in all Damascus and Bagdad. From the roofs of these palaces there hung myriads of gems, like diamonds, but larger than men; and in among the streets of towers and pyramids and temples, there flowed immense rivers as black as ebony, and swarming with fish that had no eyes.'"*

"Hum!" said the king.

"'We then swam into a region of the sea where we found a lofty mountain, down whose sides there streamed torrents of melted metal, some of which

after having travelled some ten miles up a low barren valley, covered with sand, gravel, and sea shells, fresh as if the tide had retired but yesterday, crosses a low range of sandhills, which has for some distance run parallel to his path. The scene now presented to him is beyond conception singular and desolate. A mass of fragments of trees, all converted into stone, and when struck by his horse's hoof ringing like cast iron, is seen to extend itself for miles and miles around him, in the form of a decayed and prostrate forest. The wood is of a dark brown hue, but retains its form in perfection, the pieces being from one to fifteen feet in length, and from half a foot to three feet in thickness, strewed so closely together, as far as the eye can reach, that an Egyptian donkey can scarcely thread its way through amongst them, and so natural that, were it in Scotland or Ireland, it might pass without remark for some enormous drained bog, on which the exhumed trees lay rotting in the sun. The roots and rudiments of the branches are, in many cases, nearly perfect, and in some the worm-holes eaten under the bark are readily recognisable. The most delicate of the sap vessels, and all the finer portions of the centre of the wood, are perfectly entire, and bear to be examined with the strongest magnifiers. The whole are so thoroughly silicified as to scratch glass and be capable of receiving the highest polish.—*Asiatic Magazine.*

* The Mammoth Cave of Kentucky.

were twelve miles wide and sixty miles long;* while from an abyss on the summit, issued so vast a quantity of ashes that the sun was entirely blotted out from the heavens, and it became darker than the darkest midnight; so that when we were even at the distance of a hundred and fifty miles from the mountain, it was impossible to see the whitest object, however close we held it to our eyes.'"†

"Hum!" said the king.

"'After quitting this coast, the beast continued his voyage until we met with a land in which the nature of things seemed reversed—for we here saw a great lake, at the bottom of which, more than a hundred feet beneath the surface of the water, there flourished in full leaf a forest of tall and luxuriant trees.'"‡

"Hoo!" said the king.

"'Some hundred miles farther on brought us to a climate where the atmosphere was so dense as to sustain iron or steel, just as our own does feathers.'"§

"Fiddle de dee," said the king.

* In Iceland, 1783.

† "During the eruption of Hecla, in 1766, clouds of this kind produced such a degree of darkness that, at Glaumba, which is more than fifty leagues from the mountain, people could only find their way by groping. During the eruption of Vesuvius, in 1794, at Caserta, four leagues distant, people could only walk by the light of torches. On the first of May, 1812, a cloud of volcanic ashes and sand, coming from a volcano in the island of St. Vincent, covered the whole of Barbadoes, spreading over it so intense a darkness that, at mid-day, in the open air, one could not perceive the trees or other objects near him, or even a white handherchief placed at the distance of six inches from the eye."—*Murray*, p. 215, *Phil. edit.*

‡ "In the year 1790, in the Caraccas, during an earthquake, a portion of the granite soil sank and left a lake eight hundred yards in diameter, and from eighty to a hundred feet deep. It was a part of the forest of Aripao which sank, and the trees remained green for several months under the water."—*Murray*, p. 221.

§The hardest steel ever manufactured may, under the action of a blow-pipe, be reduced to an impalpable powder, which will float readily in the atmospheric air.

"'Proceeding still in the same direction, we presently arrived at the most magnificent region in the whole world. Through it there meandered a glorious river for several thousands of miles. This river was of unspeakable depth, and of a transparency richer than that of amber. It was from three to six miles in width; and its banks, which arose on either side to twelve hundred feet in perpendicular height, were crowned with ever-blossoming trees, and perpetual sweet-scented flowers, that made the whole territory one gorgeous garden; but the name of this luxuriant land was the kingdom of Horror, and to enter it was inevitable death.'"

"Humph!" said the king.

"'We left this kingdom in great haste, and, after some days, came to another, where we were astonished to perceive myriads of monstrous animals with horns resembling scythes upon their heads. These hideous beasts dig for themselves vast caverns in the soil, of a funnel shape, and line the sides of them with rocks, so disposed one upon the other that they fall instantly, when trodden upon by other animals, thus precipitating them into the monsters' dens, where their blood is immediately sucked, and their carcasses afterwards hurled contemptuously out to an immense distance from "the caverns of death.'"*

"Pooh!" said the king.

"'Continuing our progress, we perceived a district abounding with vegetables that grew not upon

* The region of the Niger. See *Simmond's "Colonial Magazine."*

The *Myrmeleon*—lion-ant. The term "monster" is equally applicable to small abnormal things and to great, while such epithets as "vast" are merely comparative. The cavern of the myrmeleon is *vast* in comparison with the hole of the common red ant. A grain of silex is, also, a "rock".

any soil, but in the air.* There were others that sprang from the substance of other vegetables;† others that derived their sustenance from the bodies of living animals;‡ and then, again, there were others that glowed all over with intense fire;§ others that moved from place to place at pleasure;|| and what is still more wonderful, we discovered flowers that lived and breathed and moved their limbs at will, and had, moreover, the detestable passion of mankind for enslaving other creatures, and confining them in horrid and solitary prisons until the fulfilment of appointed tasks.'"¶

* The *Epidendron, Flos Aeris*, of the family of the *Orchideæ*, grows with merely the surface of its roots attached to a tree or other object, from which it derives no nutriment—subsisting altogether upon air.

† The *Parasites*, such as the wonderful *Rafflesia Arnaldii*.

‡ *Schouw* advocates a class of plants that grow upon living animals—the *Plantæ Epizoæ*. Of this class are the *Fuci* and *Algæ*.

Mr. J. B. Williams, of Salem, Mass., presented the "National Institute," with an insect from New Zealand, with the following description:—"'*The Hotte*,' a decided caterpillar, or worm, is found growing at the foot of the *Rata* tree, with a plant growing out of its head. This most peculiar and most extraordinary insect travels up both the *Rata* and *Perriri* trees, and entering into the top, eats its way, perforating the trunk of the tree until it reaches the root, it then comes out of the root, and dies, or remains dormant, and the plant propagates out of its head; the body remains perfect and entire, of a harder substance than when alive. From this insect the natives make a coloring for tattooing."

§ In mines and natural caves we find a species of cryptogamous *fungus* that emits an intense phosphorescence.

|| The orchis, scabius and valisneria.

¶ "The corolla of this flower, (*Aristolochia Clematitis*,) which is tubular, but terminating upwards in a ligulate limb, is inflated into a globular figure at the base. The tubular part is internally beset with stiff hairs, pointing downwards. The globular part contains the pistil, which consists merely of a germen and stigma, together with the surrounding stamens. But the stamens, being shorter than even the germen, cannot discharge the pollen so as to throw it upon the stigma, as the flower stands always upright till after impregnation. And hence, without some additional and peculiar aid, the pollen must necessarily fall down to the bottom of the flower. Now, the aid that nature has furnished in this case, is that of the

"Pshaw!" said the king.

"'Quitting this land, we soon arrived at another in which the bees and the birds are mathematicians of such genius and erudition, that they give daily instructions in the science of geometry to the wise men of the empire. The king of the place having offered a reward for the solution of two very difficult problems, they were solved upon the spot—the one by the bees, and the other by the birds; but the king keeping their solutions a secret, it was only after the most profound researches and labor, and the writing of an infinity of big books, during a long series of years, that the men-mathematicians at length arrived at the identical solutions which had been given upon the spot by the bees and by the birds.'"*

Tiputa Pennicornis, a small insect, which, entering the tube of the corolla in quest of honey, descends to the bottom, and rummages about till it becomes quite covered with pollen; but, not being able to force its way out again, owing to the downward position of the hairs, which converge to a point like the wires of a mouse-trap, and being somewhat impatient of its confinement, it brushes backwards and forwards, trying every corner, till, after repeatedly traversing the stigma, it covers it with pollen sufficient for its impregnation, in consequence of which the flower soon begins to droop, and the hairs to shrink to the side of the tube, effecting an easy passage for the escape of the insect."—*Rev. P. Keith*—"*System of Physiological Botany.*"

* The bees—ever since bees were—have been constructing their cells with just such sides, in just such number, and at just such inclinations, as it has been demonstrated (in a problem involving the profoundest mathematical principles) are the very size, in the very number, and at the very angles, which will afford the creatures the most room that is compatible with the greatest stability of structure.

During the latter part of the last century, the question arose among mathematicians—"to determine the best form that can be given to the sails of a windmill, according to their varying distances from the revolving vanes, and likewise from the centres of the revolution." This is an excessively complex problem; for it is, in other words, to find the best possible position at an infinity of varied distances, and at an infinity of points on the arm. There were a thousand futile attempts to answer the query on the part of the most illustrious mathema-

"Oh my!" said the king.

" 'We had scarcely lost sight of this empire when we found ourselves close upon another, from whose shores there flew over our heads a flock of fowls a mile in breadth, and two hundred and forty miles long; so that, although they flew a mile during every minute, it required no less than four hours for the whole flock to pass over us—in which there were several millions of millions of fowls.' "*

"Oh fy!" said the king.

" 'No sooner had we got rid of these birds, which ocassioned us great annoyance, than we were terrified by the appearance of a fowl of another kind, and infinitely larger than even the rocs which I met in my former voyages; for it was bigger than the biggest of the domes upon your seraglio, oh, most Munificent of Caliphs. This terrible fowl had no head that we could perceive, but was fashioned entirely of belly, which was of a prodigious fatness and roundness, of a soft looking substance, smooth, shining and striped with various colors. In its talons, the monster was bearing away to his eyrie in the heavens, a house from which it had knocked off the roof, and in the interior of which we distinctly saw human beings, who, beyond doubt, were in a state of frightful despair at the horrible fate which awaited them. We shouted with all our might, in the hope of frightening the bird into letting go of its prey; but it merely gave a snort or puff, as if of rage, and

ticians; and when, at length, an undeniable solution was discovered, men found that the wings of a bird had given it with absolute precision, ever since the first bird had traversed the air.

* He observed a flock of pigeons passing betwixt Frankfort and the Indiana territory, one mile at least in breadth; it took up four hours in passing; which, at the rate of one mile per minute, gives a length of 240 miles; and, supposing three pigeons to each square yard, gives 2,230,272,000 pigeons.—"*Travels in Canada and the United States*," *by Lieut. F. Hall.*

then let fall upon our heads a heavy sack which proved to be filled with sand!' "

"Stuff!" said the king.

" 'It was just after this adventure that we encountered a continent of immense extent and of prodigious solidity, but which, nevertheless, was supported entirely upon the back of a sky-blue cow that had no fewer than four hundred horns.' "*

"*That*, now, I believe," said the king, "because I have read something of the kind before, in a book."

" 'We passed immediately beneath this continent, (swimming in between the legs of the cow,) and, after some hours, found ourselves in a wonderful country indeed, which, I was informed by the man-animal, was his own native land, inhabited by things of his own species. This elevated the man-animal very much in my esteem; and in fact, I now began to feel ashamed of the contemptuous familiarity with which I had treated him; for I found that the man-animals in general were a nation of the most powerful magicians, who lived with worms in their brains,† which, no doubt, served to stimulate them by their painful writhings and wrigglings to the most miraculous efforts of imagination.

"Nonsense!" said the king.

" 'Among the magicians, were domesticated several animals of very singular kinds; for example, there was a huge horse whose bones were iron and whose blood was boiling water. In place of corn, he had black stones for his usual food; and yet, in spite of so hard a diet, he was so strong and swift that he would drag a load more weighty than the grandest

* "The earth is upheld by a cow of a blue color, having horns four hundred in number."—*Sale's Koran.*

† "The *Entozoa*, or intestinal worms, have repeatedly been observed in the muscles, and in the cerebral substance of men."—*See Wyatt's Physiology, p.* 143.

temple in this city, at a rate surpassing that of the flight of most birds.' "*

"Twattle!" said the king.

" 'I saw, also, among these people a hen without feathers, but bigger than a camel; instead of flesh and bone she had iron and brick; her blood, like that of the horse, (to whom, in fact, she was nearly related,) was boiling water; and like him she ate nothing but wood or black stones. This hen brought forth very frequently, a hundred chickens in the day; and, after birth, they took up their residence for several weeks within the stomach of their mother.' "†

"Fal lal!" said the king.

" 'One of this nation of mighty conjurors created a man out of brass and wood, and leather, and endowed him with such ingenuity that he would have beaten at chess, all the race of mankind with the exception of the great Caliph, Haroun Alraschid.‡ Another of these magi constructed (of like material) a creature that put to shame even the genius of him who made it; for so great were its reasoning powers that, in a second, it performed calculations of so vast an extent that they would have required the united labor of fifty thousand fleshy men for a year.§ But a still more wonderful conjuror fashioned for himself a mighty thing that was neither man nor beast, but which had brains of lead, intermixed with a black matter like pitch, and fingers that it employed with such incredible speed and dexterity that it would have had no trouble in writing out twenty thousand copies of the Koran in an hour; and this

* On the great Western Railway, between London and Exeter, a speed of 71 miles per hour has been attained. A train weighing 90 tons was whirled from Puddington to Didcot (53 miles,) in 51 minutes.

† The *Eccalobeion.*

‡ Maelzel's Automanton Chess-player.

§ Babbage's Calculating Machine.

with so exquisite a precision, that in all the copies there should not be found one to vary from another by the breadth of the finest hair. This thing was of prodigious strength, so that it erected or overthrew the mightiest empires at a breath; but its powers were exercised equally for evil and for good.'"

"Ridiculous!" said the king.

"'Among this nation of necromancers there was also one who had in his veins the blood of the salamanders; for he made no scruple of sitting down to smoke his chibouc in a red-hot oven until his dinner was thoroughly roasted upon its floor.* Another had the faculty of converting the common metals into gold, without even looking at them during the process.† Another had such a delicacy of touch that he made a wire so fine as to be invisible.‡ Another had such quickness of perception that he counted all the separate motions of an elastic body, while it was springing backwards and forwards at the rate of nine hundred millions of times in a second.'" §

"Absurd!" said the king.

"'Another of these magicians, by means of a fluid that nobody ever yet saw, could make the corpses of his friends brandish their arms, kick out their legs, fight, or even get up and dance at his will.|| Another had cultivated his voice to so great an extent that he could have made himself heard from one end of the earth to the other.¶ Another had so long an arm

* *Chabert*, and, since him, a hundred others.

† The Electrotype.

‡ *Wollaston* made of platinum for the field of views in a telescope, a wire one eighteen-thousandth part of an inch in thickness. It could be seen only by means of the microscope.

§ Newton demonstrated that the retina beneath the influence of the violet ray of the spectrum, vibrated 900,000,000 of times in a second.

|| The Voltaic pile.

¶ The Electro Telegraph transmits intelligence instantaneously—at least so far as regards any distance upon the earth.

that he could sit down in Damascus and indite a letter at Bagdad—or indeed at any distance whatsoever.* Another commanded the lightning to come down to him out of the heavens, and it came at his call; and served him for a plaything when it came. Another took two loud sounds and out of them made a silence. Another constructed a deep darkness out of two brilliant lights.† Another made ice in a red-hot furnace.‡ Another directed the sun to paint his portrait, and the sun did.§ Another took this luminary with the moon and the planets, and having first weighed them with scrupulous accuracy, probed into their depths and found out the solidity of the substance of which they are made. But the whole nation is, indeed, of so surprising a necromantic ability, that not even their infants, nor their commonest cats and dogs have any

* The Electro Telegraph Printing Apparatus.

† Common experiments in Natural Philosophy. If two red rays from two luminous points be admitted into a dark chamber so as to fall on a white surface, and differ in their length by 0.0000258 of an inch, their intensity is doubled. So also if the difference in length be any whole-number multiple of that fraction. A multiple by $2\frac{1}{4}$, $3\frac{1}{4}$, &c., gives an intensity equal to one ray only; but a multiple by $2\frac{1}{2}$, $3\frac{1}{2}$, &c., gives the result of total darkness. In violet rays similar effects arise when the difference in length is 0.0000157 of an inch; and with all other rays the results are the same—the difference varying with a uniform increase from the violet to the red.

Analogous experiments in respect to sound produce analogous results.

‡ Place a platina crucible over a spirit lamp, and keep it a red heat; pour in some sulphuric acid, which, though the most volatile of bodies at a common temperature, will be found to become completely fixed in a hot crucible, and not a drop evaporates—being surrounded by an atmosphere of its own, it does not, in fact, touch the sides. A few drops of water are now introduced, when the acid immediately coming in contact with the heated sides of the crucible, flies off in sulphurous acid vapor, and so rapid is its progress, that the caloric of the water passes off with it, which falls a lump of ice to the bottom; by taking advantage of the moment before it is allowed to re-melt, it may be turned out a lump of ice from a red-hot vessel.

§ The Daguerreotype.

difficulty in seeing objects that do not exist at all, or that for twenty millions of years before the birth of the nation itself, had been blotted out from the face of creation.'"*

" Preposterous!" said the king.

"'The wives and daughters of these incomparably great and wise magi,'" continued Scheherazade, without being in any manner disturbed by these frequent and most ungentlemanly interruptions on the part of her husband—"'the wives and daughters of these eminent conjurors are every thing that is accomplished and refined; and would be every thing that is interesting and beautiful, but for an unhappy fatality that besets them, and from which not even the miraculous powers of their husbands and fathers has, hitherto, been adequate to save. Some fatalities come in certain shapes, and some in others—but this of which I speak, has come in the shape of a crotchet."

"A what?" said the king.

"'A crotchet,'" said Scheherazade. "'One of the evil genii who are perpetually upon the watch to inflict ill, has put it into the heads of these accomplished ladies that the thing which we describe as personal beauty, consists altogether in the protu-

* Although light travels 167,000 miles in a second, the distance of 61 Cygni, (the only star whose distance is ascertained,) is so inconceivably great, that its rays would require more than ten years to reach the earth. For stars beyond this, 20—or even 1000 years—would be a moderate estimate. Thus, if they had been annihilated 20, or 1000 years ago, we might still see them to-day, by the light which *started* from their surfaces, 20 or 1000 years in the past time. That many which we see daily are really extinct, is not impossible—not even improbable.

The elder Herschel maintains that the light of the faintest nebulæ seen through his great telescope, must have taken 3,000,000 years in reaching the earth. Some, made visible by Lord Ross' instrument must, then, have required at least 20,000,000.

berance of the region which lies not very far below the small of the back. Perfection of loveliness, they say, is in the direct ratio of the extent of this hump. Having been long possessed of this idea, and bolsters being cheap in that country, the days have long gone by since it was possible to distinguish a woman from a dromedary——'"

"Stop!" said the king—"I can't stand that, and I won't. You have already given me a dreadful headache with your lies. The day, too, I perceive, is beginning to break. How long have we been married?——my conscience is getting to be troublesome again. And then that dromedary touch—do you take me for a fool? Upon the whole, you might as well get up and be throttled."

These words, as I learn from the Isitsöornot, both grieved and astonished Scheherazade; but, as she knew the king to be a man of scrupulous integrity, and quite unlikely to forfeit his word, she submitted to her fate with a good grace. She derived, however, great consolation, (during the tightening of the bowstring,) from the reflection that much of the history remained still untold, and that the petulance of her brute of a husband had reaped for him a most righteous reward, in depriving him of many inconceivable adventures.

MS. FOUND IN A BOTTLE

Qui n'a plus qu'un moment a vivre
N'a plus rien a dissimuler. *Quinault—Atys.*

OF my country and of my family I have little to say. Ill usage and length of years have driven me from the one, and estranged me from the other. Hereditary wealth afforded me an education of no common order, and a contemplative turn of mind enabled me to methodise the stores which early study very diligently garnered up. Beyond all things, the works of the German moralists gave me great delight; not from any ill-advised admiration of their eloquent madness, but from the ease with which my habits of rigid thought enabled me to detect their falsities. I have often been reproached with the aridity of my genius; a deficiency of imagination has been imputed to me as a crime; and the Pyrrhonism of my opinions has at all times rendered me notorious. Indeed, a strong relish for physical philosophy has, I fear, tinctured my mind with a very common error of this age—I mean the habit of referring occurrences, even the least susceptible of such reference, to the principles of that science. Upon the whole, no person could be less liable than myself to be led away from the severe precincts of truth by the *ignes fatui* of superstition. I have thought proper to premise thus much, lest the incredible tale I have to tell should be considered rather the raving of a crude imagination, than the positive experience of a mind to which the reveries of fancy have been a dead letter and a nullity.

After many years spent in foreign travel, I sailed in the year 18—, from the port of Batavia, in the rich and populous island of Java, on a voyage to the Archipelago of the Sunda islands. I went as passenger—having no other inducement than a kind of nervous restlessness which haunted me as a fiend.

Our vessel was a beautiful ship of about four hundred tons, copper-fastened, and built at Bombay of Malabar teak. She was freighted with cotton-wool and oil, from the Lachadive islands. We had also on board coir, jaggeree, ghee, cocoa-nuts, and a few cases of opium. The storage was clumsily done, and the vessel consequently crank.

We got under way with a mere breath of wind, and for many days stood along the eastern coast of Java, without any other incident to beguile the monotony of our course than the occasional meeting with some of the small grabs of the Archipelago to which we were bound.

One evening, leaning over the taffrail, I observed a very singular, isolated cloud, to the N. W. It was remarkable, as well for its color, as from its being the first we had seen since our departure from Batavia. I watched it attentively until sunset, when it spread all at once to the eastward and westward, girting in the horizon with a narrow strip of vapor, and looking like a long line of low beach. My notice was soon afterwards attracted by the dusky-red appearance of the moon, and the peculiar character of the sea. The latter was undergoing a rapid change, and the water seemed more than usually transparent. Although I could distinctly see the bottom, yet, heaving the lead, I found the ship in fifteen fathoms. The air now became intolerably hot, and was loaded with spiral exhalations similar to those arising from heated iron. As night came on,

every breath of wind died away, and a more entire calm it is impossible to conceive. The flame of a candle burned upon the poop without the least perceptible motion, and a long hair, held between the finger and thumb, hung without the possibility of detecting a vibration. However, as the captain said he could perceive no indication of danger, and as we were drifting in bodily to shore, he ordered the sails to be furled, and the anchor let go. No watch was set, and the crew, consisting principally of Malays, stretched themselves deliberately upon deck. I went below—not without a full presentiment of evil. Indeed, every appearance warranted me in apprehending a Simoon. I told the captain my fears; but he paid no attention to what I said, and left me without deigning to give a reply. My uneasiness, however, prevented me from sleeping, and about midnight I went upon deck. As I placed my foot upon the upper step of the companion-ladder, I was startled by a loud, humming noise, like that occasioned by the rapid revolution of a mill wheel, and before I could ascertain its meaning, I found the ship quivering to its centre. In the next instant, a wilderness of foam hurled us upon our beam-ends, and, rushing over us fore and aft, swept the entire decks from stem to stern.

The extreme fury of the blast proved, in a great measure, the salvation of the ship. Although completely water-logged, yet, as her masts had gone by the board, she rose, after a minute, heavily from the sea, and, staggering awhile beneath the immense pressure of the tempest, finally righted.

By what miracle I escaped destruction, it is impossible to say. Stunned by the shock of the water, I found myself, upon recovery, jammed in between the stern-post and rudder. With great difficulty I

gained my feet, and looking dizzily around, was at first struck with the idea of our being among breakers; so terrific, beyond the wildest imagination, was the whirlpool of mountainous and foaming ocean within which we were ingulfed. After a while, I heard the voice of an old Swede, who had shipped with us at the moment of our leaving port. I hallooed to him with all my strength, and presently he came reeling aft. We soon discovered that we were the sole survivors of the accident. All on deck, with the exception of ourselves, had been swept overboard; the captain and mates must have perished as they slept, for the cabins were deluged with water. Without assistance, we could expect to do little for the security of the ship, and our exertions were at first paralyzed by the momentary expectation of going down. Our cable had, of course, parted like pack-thread, at the first breath of the hurricane, or we should have been instantaneously overwhelmed. We scudded with frightful velocity before the sea, and the water made clear breaches over us. The frame-work of our stern was shattered excessively, and, in almost every respect, we had received considerable injury; but to our extreme joy we found the pumps unchoked, and that we had made no great shifting of our ballast. The main fury of the blast had already blown over, and we apprehended little danger from the violence of the wind; but we looked forward to its total cessation with dismay; well believing, that in our shattered condition, we should inevitably perish in the tremendous swell which would ensue. But this very just apprehension seemed by no means likely to be soon verified. For five entire days and nights—during which our only subsistence was a small quantity of jaggeree, procured with great difficulty

from the forecastle—the hulk flew at a rate defying computation, before rapidly succeeding flows of wind, which, without equalling the first violence of the Simoon, were still more terrific than any tempest I had before encountered. Our course for the first four days was, with trifling variations, S. E. and by S.; and we must have run down the coast of New Holland. On the fifth day the cold became extreme, although the wind had hauled round a point more to the northward. The sun arose with a sickly yellow lustre, and clambered a very few degrees above the horizon—emitting no decisive light. There were no clouds apparent, yet the wind was upon the increase, and blew with a fitful and unsteady fury. About noon, as nearly as we could guess, our attention was again arrested by the appearance of the sun. It gave out no light, properly so called, but a dull and sullen glow without reflection, as if all its rays were polarized. Just before sinking within the turgid sea, its central fires suddenly went out, as if hurriedly extinguished by some unaccountable power. It was a dim, silver-like rim, alone, as it rushed down the unfathomable ocean.

We waited in vain for the arrival of the sixth day—that day to me has not arrived—to the Swede, never did arrive. Thence-forward we were enshrouded in pitchy darkness, so that we could not have seen an object at twenty paces from the ship. Eternal night continued to envelop us, all unrelieved by the phosphoric sea-brilliancy to which we had been accustomed in the tropics. We observed too, that, although the tempest continued to rage with unabated violence, there was no longer to be discovered the usual appearance of surf, or foam, which had hitherto attended us. All around were horror, and thick gloom, and a black sweltering desert of ebony.

Superstitious terror crept by degrees into the spirit of the old Swede, and my own soul was wrapped up in silent wonder. We neglected all care of the ship, as worse than useless, and securing ourselves, as well as possible, to the stump of the mizen-mast, looked out bitterly into the world of ocean. We had no means of calculating time, nor could we form any guess of our situation. We were, however, well aware of having made farther to the southward than any previous navigators, and felt great amazement at not meeting with the usual impediments of ice. In the meantime every moment threatened to be our last—every mountainous billow hurried to overwhelm us. The swell surpassed anything I had imagined possible, and that we were not instantly buried is a miracle. My companion spoke of the lightness of our cargo, and reminded me of the excellent qualities of our ship; but I could not help feeling the utter hopelessness of hope itself, and prepared myself gloomily for that death which I thought nothing could defer beyond an hour, as, with every knot of way the ship made, the swelling of the black stupendous seas became more dismally appalling. At times we gasped for breath at an elevation beyond the albatross—at times became dizzy with the velocity of our descent into some watery hell, where the air grew stagnant, and no sound disturbed the slumbers of the kraken.

We were at the bottom of one of these abysses, when a quick scream from my companion broke fearfully upon the night. "See! see!" cried he, shrieking in my ears, "Almighty God! see! see!" As he spoke, I became aware of a dull, sullen glare of red light which streamed down the sides of the vast chasm where we lay, and threw a fitful brilliancy upon our deck. Casting my eyes upwards,

I beheld a spectacle which froze the current of my blood. At a terrific height directly above us, and upon the very verge of the precipitous descent, hovered a gigantic ship, of perhaps four thousand tons. Although upreared upon the summit of a wave more than a hundred times her own altitude, her apparent size still exceeded that of any ship of the line or East Indiaman in existence. Her huge hull was of a deep dingy black, unrelieved by any of the customary carvings of a ship. A single row of brass cannon protruded from her open ports, and dashed from their polished surfaces the fires of innumerable battle-lanterns, which swung to and fro about her rigging. But what mainly inspired us with horror and astonishment, was that she bore up under a press of sail in the very teeth of that supernatural sea, and of that ungovernable hurricane. When we first discovered her, her bows were alone to be seen, as she rose slowly from the dim and horrible gulf beyond her. For a moment of intense terror she paused upon the giddy pinnacle, as if in contemplation of her own sublimity, then trembled and tottered, and—came down.

At this instant, I know not what sudden self-possession came over my spirit. Staggering as far aft as I could, I awaited fearlessly the ruin that was to overwhelm. Our own vessel was at length ceasing from her struggles, and sinking with her head to the sea. The shock of the descending mass struck her, consequently, in that portion of her frame which was already under water, and the inevitable result was to hurl me, with irresistible violence, upon the rigging of the stranger.

As I fell, the ship hove in stays, and went about; and to the confusion ensuing I attributed my escape from the notice of the crew. With little

difficulty I made my way, unperceived, to the main hatchway, which was partially open, and soon found an opportunity of secreting myself in the hold. Why I did so I can hardly tell. An indefinite sense of awe, which at first sight of the navigators of the ship had taken hold of my mind, was perhaps the principle of my concealment. I was unwilling to trust myself with a race of people who had offered, to the cursory glance I had taken, so many points of vague novelty, doubt, and apprehension. I therefore thought proper to contrive a hiding-place in the hold. This I did by removing a small portion of the shifting-boards, in such a manner as to afford me a convenient retreat between the huge timbers of the ship.

I had scarcely completed my work, when a footstep in the hold forced me to make use of it. A man passed by my place of concealment with a feeble and unsteady gait. I could not see his face, but had an opportunity of observing his general appearance. There was about it an evidence of great age and infirmity. His knees tottered beneath a load of years, and his entire frame quivered under the burthen. He muttered to himself, in a low broken tone, some words of a language which I could not understand, and groped in a corner among a pile of singular-looking instruments, and decayed charts of navigation. His manner was a wild mixture of the peevishness of second childhood and the solemn dignity of a God. He at length went on deck, and I saw him no more.

* * * * *

A feeling, for which I have no name, has taken possession of my soul—a sensation which will admit of no analysis, to which the lessons of by-gone time

are inadequate, and for which I fear futurity itself will offer me no key. To a mind constituted like my own, the latter consideration is an evil. I shall never—I know that I shall never—be satisfied with regard to the nature of my conceptions. Yet it is not wonderful that these conceptions are indefinite, since they have their origin in sources so utterly novel. A new sense—a new entity is added to my soul.

* * * * *

It is long since I first trod the deck of this terrible ship, and the rays of my destiny are, I think, gathering to a focus. Incomprehensible men! Wrapped up in meditations of a kind which I cannot divine, they pass me by unnoticed. Concealment is utter folly on my part, for the people *will not* see. It was but just now that I passed directly before the eyes of the mate; it was no long while ago that I ventured into the captain's own private cabin, and took thence the materials with which I write, and have written. I shall from time to time continue this journal. It is true that I may not find an opportunity of transmitting it to the world, but I will not fail to make the endeavor. At the last moment I will enclose the MS. in a bottle, and cast it within the sea.

* * * * *

An incident has occurred which has given me new room for meditation. Are such things the operation of ungoverned chance? I had ventured upon deck and thrown myself down, without attracting any notice, among a pile of ratlin-stuff and old sails, in the bottom of the yawl. While musing upon the singularity of my fate, I unwittingly daubed with a tar-brush the edges of a neatly-folded studding-sail

which lay near me on a barrel. The studding-sail is now bent upon the ship, and the thoughtless touches of the brush are spread out into the word DISCOVERY.

I have made many observations lately upon the structure of the vessel. Although well armed, she is not, I think, a ship of war. Her rigging, build, and general equipment, all negative a supposition of this kind. What she *is not*, I can easily perceive; what she *is*, I fear it is impossible to say. I know not how it is, but in scrutinizing her strange model and singular cast of spars, her huge size and overgrown suits of canvass, her severely simple bow and antiquated stern, there will occasionally flash across my mind a sensation of familiar things, and there is always mixed up with such indistinct shadows of recollection, an unaccountable memory of old foreign chronicles and ages long ago. * * *

I have been looking at the timbers of the ship. She is built of a material to which I am a stranger. There is a peculiar character about the wood which strikes me as rendering it unfit for the purpose to which it has been applied. I mean its extreme *porousness*, considered independently of the worm-eaten condition which is a consequence of navigation in these seas, and apart from the rottenness attendant upon age. It will appear perhaps an observation somewhat over-curious, but this wood would have every characteristic of Spanish oak, if Spanish oak were distended by any unnatural means.

In reading the above sentence, a curious apothegm of an old weather-beaten Dutch navigator comes full upon my recollection. "It is as sure," he was wont to say, when any doubt was entertained of his veracity, "as sure as there is a sea where the ship itself will grow in bulk like the living body of the seaman." * * * * *

About an hour ago, I made bold to thrust myself among a group of the crew. They paid me no manner of attention, and, although I stood in the very midst of them all, seemed utterly unconscious of my presence. Like the one I had at first seen in the hold, they all bore about them the marks of a hoary old age. Their knees trembled with infirmity; their shoulders were bent double with decrepitude; their shrivelled skins rattled in the wind; their voices were low, tremulous, and broken; their eyes glistened with the rheum of years; and their gray hairs streamed terribly in the tempest. Around them, on every part of the deck, lay scattered mathematical instruments of the most quaint and obsolete construction. * * * * *

I mentioned, some time ago, the bending of a studding-sail. From that period, the ship, being thrown dead off the wind, has continued her terrific course due south, with every rag of convass packed upon her, from her trucks to her lower studding-sail booms, and rolling every moment her top-gallant yard-arms into the most appalling hell of water which it can enter into the mind of man to imagine. I have just left the deck, where I find it impossible to maintain a footing, although the crew seem to experience little inconvenience. It appears to me a miracle of miracles that our enormous bulk is not swallowed up at once and forever. We are surely doomed to hover continually upon the brink of eternity, without taking a final plunge into the abyss. From billows a thousand times more stupendous than any I have ever seen, we glide away with the facility of the arrowy sea-gull; and the colossal waters rear their heads above us like demons of the deep, but like demons confined to simple threats, and forbidden to destroy. I am led to at-

tribute these frequent escapes to the only natural cause which can account for such effect. I must suppose the ship to be within the influence of some strong current, or impetuous under-tow. * * *

I have seen the captain face to face, and in his own cabin—but, as I expected, he paid me no attention. Although in his appearance there is, to a casual observer, nothing which might bespeak him more or less than man, still, a feeling of irrepressible reverence and awe mingled with the sensation of wonder with which I regarded him. In stature, he is nearly my own height; that is, about five feet eight inches. He is of a well-knit and compact frame of body, neither robust nor remarkable otherwise. But it is the singularity of the expression which reigns upon the face—it is the intense, the wonderful, the thrilling evidence of old age, so utter, so extreme, which excites within my spirit a sense—a sentiment ineffable. His forehead, although little wrinkled, seems to bear upon it the stamp of a myriad of years. His gray hairs are records of the past, and his grayer eyes are sybils of the future. The cabin floor was thickly strewn with strange, iron-clasped folios, and mouldering instruments of science, and obsolete long-forgotten charts. His head was bowed down upon his hands, and he pored, with a fiery, unquiet eye, over a paper which I took to be a commission, and which, at all events, bore the signature of a monarch. He muttered to himself—as did the first seaman whom I saw in the hold—some low peevish syllables of a foreign tongue; and although the speaker was close at my elbow, his voice seemed to reach my ears from the distance of a mile. * * * * * *

The ship and all in it are imbued with the spirit of Eld. The crew glide to and fro like the ghosts of

buried centuries; their eyes have an eager and uneasy meaning; and when their fingers fall athwart my path in the wild glare of the battle-lanterns, I feel as I have never felt before, although I have been all my life a dealer in antiquities, and have imbibed the shadows of fallen columns at Balbec, and Tadmor, and Persepolis, until my very soul has become a ruin. * * * * *

When I look around me, I feel ashamed of my former apprehensions. If I trembled at the blast which has hitherto attended us, shall I not stand aghast at a warring of wind and ocean, to convey any idea of which, the words tornado and simoon are trivial and ineffective? All in the immediate vicinity of the ship, is the blackness of eternal night, and a chaos of foamless water; but, about a league on either side of us, may be seen, indistinctly and at intervals, stupendous ramparts of ice, towering away into the desolate sky, and looking like the walls of the universe. * * * * *

As I imagined, the ship proves to be in a current—if that appellation can properly be given to a tide which, howling and shrieking by the white ice, thunders on to the southward with a velocity like the headlong dashing of a cataract. * * *

To conceive the horror of my sensations is, I presume, utterly impossible; yet a curiosity to penetrate the mysteries of these awful regions, predominates even over my despair, and will reconcile me to the most hideous aspect of death. It is evident that we are hurrying onwards to some exciting knowledge —some never-to-be-imparted secret, whose attainment is destruction. Perhaps this current leads us to the southern pole itself. It must be confessed that a supposition apparently so wild has every probability in its favor. * * * * *

The crew pace the deck with unquiet and tremulous step; but there is upon their countenances an expression more of the eagerness of hope than of the apathy of despair.

In the meantime the wind is still in our poop, and, as we carry a crowd of canvass, the ship is at times lifted bodily from out the sea! Oh, horror upon horror!—the ice opens suddenly to the right, and to the left, and we are whirling dizzily, in immense concentric circles, round and round the borders of a gigantic amphitheatre, the summit of whose walls is lost in the darkness and the distance. But little time will be left me to ponder upon my destiny! The circles rapidly grow small—we are plunging madly within the grasp of the whirlpool—and amid a roaring, and bellowing, and thundering of ocean and of tempest, the ship is quivering—oh God! and——going down!

Note.—The "MS. Found in a Bottle," was originally published in 1831; and it was not until many years afterwards that I became acquainted with the maps of Mercator, in which the ocean is represented as rushing, by four mouths, into the (northern) Polar Gulf, to be absorbed into the bowels of the earth; the Pole itself being represented by a black rock, towering to a prodigious height.

A DESCENT INTO THE MAELSTROM

The ways of God in Nature, as in Providence, are not as *our* ways; nor are the models that we frame any way commensurate to the vastness, profundity, and unsearchableness of His works, *which have a depth in them greater than the well of Democritus.*

Joseph Glanville.

WE had now reached the summit of the loftiest crag. For some minutes the old man seemed too much exhausted to speak.

"Not long ago," said he at length, "and I could have guided you on this route as well as the youngest of my sons; but, about three years past, there happened to me an event such as never happened before to mortal man—or at least such as no man ever survived to tell of—and the six hours of deadly terror which I then endured have broken me up body and soul. You suppose me a *very* old man—but I am not. It took less than a single day to change these hairs from a jetty black to white, to weaken my limbs, and to unstring my nerves, so that I tremble at the least exertion, and am frightened at a shadow. Do you know I can scarcely look over this little cliff without getting giddy?"

The "little cliff," upon whose edge he had so carelessly thrown himself down to rest that the weightier portion of his body hung over it, while he was only kept from falling by the tenure of his elbow on its extreme and slippery edge—this "little cliff" arose, a sheer unobstructed precipice of black shining rock, some fifteen or sixteen hundred feet from the world of crags beneath us. Nothing would have

tempted me to within half a dozen yards of its brink. In truth so deeply was I excited by the perilous position of my companion, that I fell at full length upon the ground, clung to the shrubs around me, and dared not even glance upward at the sky—while I struggled in vain to divest myself of the idea that the very foundations of the mountain were in danger from the fury of the winds. It was long before I could reason myself into sufficient courage to sit up and look out into the distance.

"You must get over these fancies," said the guide, "for I have brought you here that you might have the best possible view of the scene of that event I mentioned—and to tell you the whole story with the spot just under your eye."

"We are now," he continued, in that particularizing manner which distinguished him—"we are now close upon the Norwegian coast—in the sixty-eighth degree of latitude—in the great province of Nordland—and in the dreary district of Lofoden. The mountain upon whose top we sit is Helseggen, the Cloudy. Now raise yourself up a little higher—hold on to the grass if you feel giddy—so—and look out, beyond the belt of vapor beneath us, into the sea."

I looked dizzily, and beheld a wide expanse of ocean, whose waters were so inky a hue as to bring at once to my mind the Nubian geographer's account of the *Mare Tenebrarum*. A panorama more deplorably desolate no human imagination can conceive. To the right and left, as far as the eye could reach, there lay outstretched, like ramparts of the world, lines of horridly black and beetling cliff, whose character of gloom was but the more forcibly illustrated by the surf which reared high up against it its white and ghastly crest, howling and shrieking

for ever. Just opposite the promontory upon whose apex we were placed, and at a distance of some five or six miles out at sea, there was visible a small, bleak-looking island; or, more properly, its position was discernible through the wilderness of surge in which it was enveloped. About two miles nearer the land, arose another of smaller size, hideously craggy and barren, and encompassed at various intervals by a cluster of dark rocks.

The appearance of the ocean, in the space between the more distant island and the shore, had something very unusual about it. Although, at the time, so strong a gale was blowing landward that a brig in the remote offing lay to under a double-reefed trysail, and constantly plunged her whole hull out of sight, still there was here nothing like a regular swell, but only a short, quick, angry cross dashing of water in every direction—as well in the teeth of the wind as otherwise. Of foam there was little except in the immediate vicinity of the rocks.

"The island in the distance," resumed the old man, "is called by the Norwegians Vurrgh. The one midway is Moskoe. That a mile to the northward is Ambaaren. Yonder are Islesen, Hotholm, Keildhelm, Suarven, and Buckholm. Farther off—between Moskoe and Vurrgh—are Otterholm, Flimen Sandflesen, and Stockholm. These are the true names of the places—but why it has been thought necessary to name them at all, is more than either you or I can understand. Do you hear anything? Do you see any change in the water?"

We had now been about ten minutes upon the top of Helseggen, to which we had ascended from the interior of Lofoden, so that we had caught no glimpse of the sea until it had burst upon us from the summit. As the old man spoke, I became

aware of a loud and gradually increasing sound, like the moaning of a vast herd of buffaloes upon an American prairie; and at the same moment I perceived that what seamen term the *chopping* character of the ocean beneath us, was rapidly changing into a current which set to the eastward. Even while I gazed, this current acquired a monstrous velocity. Each moment added to its speed—to its headlong impetuosity. In five minutes the whole sea, as far as Vurrgh, was lashed into ungovernable fury; but it was between Moskoe and the coast that the main uproar held its sway. Here the vast bed of the waters, seamed and scarred into a thousand conflicting channels, burst suddenly into phrensied convulsion—heaving, boiling, hissing—gyrating in gigantic and innumerable vortices, and all whirling and plunging on to the eastward with a rapidity which water never elsewhere assumes except in precipitous descents.

In a few minutes more, there came over the scene another radical alteration. The general surface grew somewhat more smooth, and the whirlpools, one by one, disappeared, while prodigious streaks of foam became apparent where none had been seen before. These streaks, at length, spreading out to a great distance, and entering into combination, took unto themselves the gyratory motion of the subsided vortices, and seemed to form the germ of another more vast. Suddenly—very suddenly—this assumed a distinct and definite existence, in a circle of more than a mile in diameter. The edge of the whirl was represented by a broad belt of gleaming spray; but no particle of this slipped into the mouth of the terrific funnel, whose interior, as far as the eye could fathom it, was a smooth, shining, and jet-black wall of water, inclined to the horizon at an

angle of some forty-five degrees, speeding dizzily round and round with a swaying and sweltering motion, and sending forth to the winds an appalling voice, half shriek, half roar, such as not even the mighty cataract of Niagara ever lifts up in its agony to Heaven.

The mountain trembled to its very base, and the rock rocked. I threw myself upon my face, and clung to the scant herbage in an excess of nervous agitation.

"This," said I at length, to the old man—"this *can* be nothing else than the great whirlpool of the Maelström."

"So it is sometimes termed," said he. "We Norwegians call it the Moskoe-ström, from the island of Moskoe in the midway."

The ordinary accounts of this vortex had by no means prepared me for what I saw. That of Jonas Ramus, which is perhaps the most circumstantial of any, cannot impart the faintest conception either of the magnificence, or of the horror of the scene—or of the wild bewildering sense of *the novel* which confounds the beholder. I am not sure from what point of view the writer in question surveyed it, nor at what time; but it could neither have been from the summit of Helseggen, nor during a storm. There are some passages of his description, nevertheless, which may be quoted for their details, although their effect is exceedingly feeble in conveying an impression of the spectacle.

"Between Lofoden and Moskoe," he says, "the depth of the water is between thirty-six and forty fathoms; but on the other side, toward Ver (Vurrgh) this depth decreases so as not to afford a convenient passage for a vessel, without the risk of splitting on the rocks, which happens even in the calmest

weather. When it is flood, the stream runs up the country between Lofoden and Moskoe with a boisterous rapidity; but the roar of its impetuous ebb to the sea is scarce equalled by the loudest and most dreadful cataracts; the noise being heard several leagues off, and the vortices or pits are of such an extent and depth, that if a ship comes within its attraction, it is inevitably absorbed and carried down to the bottom, and there beat to pieces against the rocks; and when the water relaxes, the fragments thereof are thrown up again. But these intervals of tranquillity are only at the turn of the ebb and flood, and in calm weather, and last but a quarter of an hour, its violence gradually returning. When the stream is most boisterous, and its fury heightened by a storm, it is dangerous to come within a Norway mile of it. Boats, yachts, and ships have been carried away by not guarding against it before they were within its reach. It likewise happens frequently, that whales come too near the stream, and are overpowered by its violence; and then it is impossible to describe their howlings and bellowings in their fruitless struggles to disengage themselves. A bear once, attempting to swim from Lofoden to Moskoe, was caught by the stream and borne down, while he roared terribly, so as to be heard on shore. Large stocks of firs and pine trees, after being absorbed by the current, rise again broken and torn to such a degree as if bristles grew upon them. This plainly shows the bottom to consist of craggy rocks, among which they are whirled to and fro. This stream is regulated by the flux and reflux of the sea—it being constantly high and low water every six hours. In the year 1645, early in the morning of Sexagesima Sunday, it raged with such noise and impetuosity that the

very stones of the houses on the coast fell to the ground."

In regard to the depth of the water, I could not see how this could have been ascertained at all in the immediate vicinity of the vortex. The "forty fathoms" must have reference only to portions of the channel close upon the shore either of Moskoe or Lofoden. The depth in the centre of the Moskoeström must be immeasurably greater; and no better proof of this fact is necessary than can be obtained from even the sidelong glance into the abyss of the whirl which may be had from the highest crag of Helseggen. Looking down from this pinnacle upon the howling Phlegethon below, I could not help smiling at the simplicity with which the honest Jonas Ramus records, as a matter difficult of belief, the anecdotes of the whales and the bears; for it appeared to me, in fact, a self-evident thing, that the largest ship of the line in existence, coming within the influence of that deadly attraction, could resist it as little as a feather the hurricane, and must disappear bodily and at once.

The attempts to account for the phenomenon—some of which, I remember, seemed to me sufficiently plausible in perusal—now wore a very different and unsatisfactory aspect. The idea generally received is that this, as well as three smaller vortices among the Ferroe islands, "have no other cause than the collision of waves rising and falling, at flux and reflux, against a ridge of rocks and shelves, which confines the water so that it precipitates itself like a cataract; and thus the higher the flood rises, the deeper must the fall be, and the natural result of all is a whirlpool or vortex, the prodigious suction of which is sufficiently known by lesser experiments."—These are the words of the Encyclopædia Britannica.

Kircher and others imagine that in the centre of the channel of the Maelström is an abyss penetrating the globe, and issuing in some very remote part—the Gulf of Bothnia being somewhat decidedly named in one instance. This opinion, idle in itself, was the one to which, as I gazed, my imagination most readily assented; and, mentioning it to the guide, I was rather surprised to hear him say that, although it was the view almost universally entertained of the subject by the Norwegians, it nevertheless was not his own. As to the former notion he confessed his inability to comprehend it; and here I agreed with him—for, however conclusive on paper, it becomes altogether unintelligible, and even absurd, amid the thunder of the abyss.

"You have had a good look at the whirl now," said the old man," and if you will creep round this crag, so as to get in its lee, and deaden the roar of the water, I will tell you a story that will convince you I ought to know something of the Moskoe-ström."

I placed myself as desired, and he proceeded.

"Myself and my two brothers once owned a schooner-rigged smack of about seventy tons burthen, with which we were in the habit of fishing among the islands beyond Moskoe, nearly to Vurrgh. In all violent eddies at sea there is good fishing, at proper opportunities, if one has only the courage to attempt it; but among the whole of the Lofoden coastmen, we three were the only ones who made a regular business of going out to the islands, as I tell you. The usual grounds are a great way lower down to the southward. There fish can be got at all hours, without much risk, and therefore these places are preferred. The choice spots over here among the rocks, however, not only yield the finest variety, but in far greater abundance; so that we often got in a single day,

what the more timid of the craft could not scrape together in a week. In fact, we made it a matter of desperate speculation—the risk of life standing instead of labor, and courage answering for capital.

"We kept the smack in a cove about five miles higher up the coast than this; and it was our practice, in fine weather, to take advantage of the fifteen minutes' slack to push across the main channel of the Moskoe-ström, far above the pool, and then drop down upon anchorage somewhere near Otterholm, or Sandflesen, where the eddies are not so violent as elsewhere. Here we used to remain until nearly time for slack-water again, when we weighed and made for home. We never set out upon this expedition without a steady side wind for going and coming—one that we felt sure would not fail us before our return—and we seldom made a mis-calculation upon this point. Twice, during six years, we were forced to stay all night at anchor on account of a dead calm, which is a rare thing indeed just above here; and once we had to remain on the grounds nearly a week, starving to death, owing to a gale which blew up shortly after our arrival, and made the channel too boisterous to be thought of. Upon this occasion we should have been driven out to sea in spite of everything, (for the whirlpools threw us round and round so violently, that, at length, we fouled our anchor and dragged it) if it had not been that we drifted into one of the innumerable cross currents—here to-day and gone to-morrow—which drove us under the lee of Flimen, where, by good luck, we brought up.

"I could not tell you the twentieth part of the difficulties we encountered 'on the grounds'—it is a bad spot to be in, even in good weather—but we made shift always to run the gauntlet of the Moskoe-

ström itself without accident; although at times my heart has been in my mouth when we happened to be a minute or so behind or before the slack. The wind sometimes was not as strong as we thought it at starting, and then we made rather less way than we could wish, while the current rendered the smack unmanageable. My eldest brother had a son eighteen years old, and I had two stout boys of my own. These would have been of great assistance at such times, in using the sweeps, as well as afterward in fishing—but, somehow, although we ran the risk ourselves, we had not the heart to let the young ones get into the danger—for, after all is said and done, it *was* a horrible danger, and that is the truth.

"It is now within a few days of three years since what I am going to tell you occurred. It was on the tenth day of July, 18—, a day which the people of this part of the world will never forget—for it was one in which blew the most terrible hurricane that ever came out of the heavens. And yet all the morning, and indeed until late in the afternoon, there was a gentle and steady breeze from the southwest, while the sun shone brightly, so that the oldest seaman among us could not have foreseen what was to follow.

"The three of us—my two brothers and myself—had crossed over to the islands about two o'clock P. M., and had soon nearly loaded the smack with fine fish, which, we all remarked, were more plenty that day than we had ever known them. It was just seven, *by my watch*, when we weighed and started for home, so as to make the worst of the Ström at slack water, which we knew would be at eight.

"We set out with a fresh wind on our starboard quarter, and for some time spanked along at a great rate, never dreaming of danger, for indeed we saw

not the slightest reason to apprehend it. All at once we were taken aback by a breeze from over Helseggen. This was most unusual—something that had never happened to us before—and I began to feel a little uneasy, without exactly knowing why. We put the boat on the wind, but could make no headway at all for the eddies, and I was upon the point of proposing to return to the anchorage, when, looking astern, we saw the whole horizon covered with a singular copper-colored cloud that rose with the most amazing velocity.

"In the meantime the breeze that had headed us off fell away, and we were dead becalmed, drifting about in every direction. This state of things, however, did not last long enough to give us time to think about it. In less than a minute the storm was upon us—in less than two the sky was entirely overcast—and what with this and the driving spray, it became suddenly so dark that we could not see each other in the smack.

"Such a hurricane as then blew it is folly to attempt describing. The oldest seaman in Norway never experienced any thing like it. We had let our sails go by the run before it cleverly took us; but, at the first puff, both our masts went by the board as if they had been sawed off—the mainmast taking with it my youngest brother, who had lashed himself to it for safety.

"Our boat was the lightest feather of a thing that ever sat upon water. It had a complete flush deck, with only a small hatch near the bow, and this hatch it had always been our custom to batten down when about to cross the Ström, by way of precaution against the chopping seas. But for this circumstance we should have foundered at once—for we lay entirely buried for some moments. How my elder

brother escaped destruction I cannot say, for I never had an opportunity of ascertaining. For my part, as soon as I had let the foresail run, I threw myself flat on deck, with my feet against the narrow gunwale of the bow, and with my hands grasping a ringbolt near the foot of the foremast. It was mere instinct that prompted me to do this—which was undoubtedly the very best thing I could have done—for I was too much flurried to think.

"For some moments we were completely deluged, as I say, and all this time I held my breath, and clung to the bolt. When I could stand it no longer I raised myself upon my knees, still keeping hold with my hands, and thus got my head clear. Presently our little boat gave herself a shake, just as a dog does in coming out of the water, and thus rid herself, in some measure, of the seas. I was now trying to get the better of the stupor that had come over me, and to collect my senses so as to see what was to be done, when I felt somebody grasp my arm. It was my elder brother, and my heart leaped for joy, for I had made sure that he was overboard—but the next moment all this joy was turned into horror—for he put his mouth close to my ear, and screamed out the word '*Moskoe-ström!*'

"No one ever will know what my feelings were at that moment. I shook from head to foot as if I had had the most violent fit of the ague. I knew what he meant by that one word well enough—I knew what he wished to make me understand. With the wind that now drove us on, we were bound for the whirl of the Ström, and nothing could save us!

"You perceive that in crossing the Ström *channel*, we always went a long way up above the whirl, even in the calmest weather, and then had to wait and watch carefully for the slack—but now we were driv-

ing right upon the pool itself, and in such a hurricane as this! 'To be sure,' I thought, 'we shall get there just about the slack—there is some little hope in that'—but in the next moment I cursed myself for being so great a fool as to dream of hope at all. I knew very well that we were doomed, had we been ten times a ninety-gun ship.

"By this time the first fury of the tempest had spent itself, or perhaps we did not feel it so much, as we scudded before it, but at all events the seas, which at first had been kept down by the wind, and lay flat and frothing, now got up into absolute mountains. A singular change, too, had come over the heavens. Around in every direction it was still as black as pitch, but nearly overheard there burst out, all at once, a circular rift of clear sky—as clear as I ever saw—and of a deep bright blue—and through it there blazed forth the full moon with a lustre that I never before knew her to wear. She lit up every thing about us with the greatest distinctness—but, oh God, what a scene it was to light up!

"I now made one or two attempts to speak to my brother—but, in some manner which I could not understand, the din had so increased that I could not make him hear a single word, although I screamed at the top of my voice in his ear. Presently he shook his head, looking as pale as death, and held up one of his fingers, as if to say '*listen!*'

"At first I could not make out what he meant—but soon a hideous thought flashed upon me. I dragged my watch from its fob. It was not going. I glanced at its face by the moonlight, and then burst into tears as I flung it far away into the ocean. *It had run down at seven o'clock! We were behind the time of the slack, and the whirl of the Ström was in full fury!*

"When a boat is well built, properly trimmed, and not deep laden, the waves in a strong gale, when she is going large, seem always to slip from beneath her—which appears very strange to a landsman—and this is what is called *riding*, in sea phrase. Well, so far we had ridden the swells very cleverly; but presently a gigantic sea happened to take us right under the counter, and bore us with it as it rose—up—up as if into the sky. I would not have believed that any wave could rise so high. And then down we came with a sweep, a slide, and a plunge, that made me feel sick and dizzy, as if I was falling from some lofty mountain-top in a dream. But while we were up I had thrown a quick glance around—and that one glance was all sufficient. I saw our exact position in an instant. The Moskoe-ström whirlpool was about a quarter of a mile dead ahead—but no more like the every-day Moskoe-ström, than the whirl as you now see it is like a mill-race. If I had not known where we were, and what we had to expect, I should not have recognized the place at all. As it was, I involuntarily closed my eyes in horror. The lids clenched themselves together as if in a spasm.

"It could not have been more than two minutes afterward until we suddenly felt the waves subside, and were enveloped in foam. The boat made a sharp half turn to larboard, and then shot off in its new direction like a thunderbolt. At the same moment the roaring noise of the water was completely drowned in a kind of shrill shriek—such a sound as you might imagine given out by the waste-pipes of many thousand steam-vessels, letting off their steam all together. We were now in the belt of the surf that always surrounds the whirl; and I thought, of course, that another moment would plunge us into the abyss—down which we could only

see indistinctly on account of the amazing velocity with which we were borne along. The boat did not seem to sink into the water at all, but to skim like an air-bubble upon the surface of the surge. Her starboard side was next the whirl, and on the larboard arose the world of ocean we had left. It stood like a huge writhing wall between us and the horizon.

"It may appear strange, but now, when we were in the very jaws of the gulf, I felt more composed than when we were only approaching it. Having made up my mind to hope no more, I got rid of a great deal of that terror which unmanned me at first. I suppose it was despair that strung my nerves.

"It may look like boasting—but what I tell you is truth—I began to reflect how magnificent a thing it was to die in such a manner, and how foolish it was in me to think of so paltry a consideration as my own individual life, in view of so wonderful a manifestation of God's power. I do believe that I blushed with shame when this idea crossed my mind. After a little while I became possessed with the keenest curiosity about the whirl itself. I positively felt a *wish* to explore its depths, even at the sacrifice I was going to make; and my principal grief was that I should never be able to tell my old companions on shore about the mysteries I should see. These, no doubt, were singular fancies to occupy a man's mind in such extremity—and I have often thought since, that the revolutions of the boat around the pool might have rendered me a little light-headed.

"There was another circumstance which tended to restore my self-possession; and this was the cessation of the wind, which could not reach us in our present situation—for, as you saw yourself, the belt of surf is considerably lower than the gen-

eral bed of the ocean, and this latter now towered above us, a high, black, mountainous ridge. If you have never been at sea in a heavy gale, you can form no idea of the confusion of mind occasioned by the wind and spray together. They blind, deafen, and strangle you, and take away all power of action or reflection. But we were now, in a great measure, rid of these annoyances—just as death-condemned felons in prison are allowed petty indulgences, forbidden them while their doom is yet uncertain.

"How often we made the circuit of the belt it is impossible to say. We careered round and round for perhaps an hour, flying rather than floating, getting gradually more and more into the middle of the surge, and then nearer and nearer to its horrible inner edge. All this time I had never let go of the ring-bolt. My brother was at the stern, holding on to a small empty water-cask which had been securely lashed under the coop of the counter, and was the only thing on deck that had not been swept overboard when the gale first took us. As we approached the brink of the pit he let go his hold upon this, and made for the ring, from which, in the agony of his terror he endeavored to force my hands, as it was not large enough to afford us both a secure grasp. I never felt deeper grief than when I saw him attempt this act—although I knew he was a madman when he did it—a raving maniac through sheer fright. I did not care, however, to contest the point with him. I knew it could make no difference whether either of us held on at all; so I let him have the bolt, and went astern to the cask. This there was no great difficulty in doing; for the smack flew round steadily enough, and upon an even keel—only swaying to and fro, with the immense sweeps and swelters of the whirl. Scarcely had I secured my-

self in my new position, when we gave a wild lurch to starboard, and rushed headlong into the abyss. I muttered a hurried prayer to God, and thought all was over.

"As I felt the sickening sweep of the descent, I had instinctively tightened my hold upon the barrel, and closed my eyes. For some seconds I dared not open them—while I expected instant destruction, and wondered that I was not already in my death-struggles with the water. But moment after moment elapsed. I still lived. The sense of falling had ceased; and the motion of the vessel seemed much as it had been before, while in the belt of foam, with the exception that she now lay more along. I took courage, and looked once again upon the scene.

"Never shall I forget the sensations of awe, horror, and admiration with which I gazed about me. The boat appeared to be hanging, as if by magic, midway down, upon the interior surface of a funnel vast in circumference, prodigious in depth, and whose perfectly smooth sides might have been mistaken for ebony, but for the bewildering rapidity with which they spun around, and for the gleaming and ghastly radiance they shot forth, as the rays of the full moon, from that circular rift amid the clouds which I have already described, streamed in a flood of golden glory along the black walls, and far away down into the inmost recesses of the abyss.

"At first I was too much confused to observe anything accurately. The general burst of terrific grandeur was all that I beheld. When I recovered myself a little, however, my gaze fell instinctively downward. In this direction I was able to obtain an unobstructed view, from the manner in which the smack hung on the inclined surface of the pool. She was quite upon an even keel—that is to say, her

deck lay in a plane parallel with that of the water—but this latter sloped at an angle of more than forty-five degrees, so that we seemed to be lying upon our beam-ends. I could not help observing, nevertheless, that I had scarcely more difficulty in maintaining my hold and footing in this situation, than if we had been upon a dead level; and this, I suppose, was owing to the speed at which we revolved.

"The rays of the moon seemed to search the very bottom of the profound gulf; but still I could make out nothing distinctly, on account of a thick mist in which everything there was enveloped, and over which there hung a magnificent rainbow, like that narrow and tottering bridge which Mussulmen say is the only pathway between Time and Eternity. This mist, or spray, was no doubt occasioned by the clashing of the great walls of the funnel, as they all met together at the bottom—but the yell that went up to the Heavens from out of that mist, I dare not attempt to describe.

"Our first slide into the abyss itself, from the belt of foam above, had carried us a great distance down the slope; but our farther descent was by no means proportionate. Round and round we swept—not with any uniform movement—but in dizzying swings and jerks, that sent us sometimes only a few hundred yards—sometimes nearly the complete circuit of the whirl. Our progress downward, at each revolution, was slow, but very perceptible.

"Looking about me upon the wide waste of liquid ebony on which we were thus borne, I perceived that our boat was not the only object in the embrace of the whirl. Both above and below us were visible fragments of vessels, large masses of building timber and trunks of trees, with many smaller articles, such as pieces of house furniture, broken boxes, barrels

and staves. I have already described the unnatural curiosity which had taken the place of my original terrors. It appeared to grow upon me as I drew nearer and nearer to my dreadful doom. I now began to watch, with a strange interest, the numerous things that floated in our company. I *must* have been delirious—for I even sought *amusement* in speculating upon the relative velocities of their several descents toward the foam below. 'This fir tree,' I found myself at one time saying, 'will certainly be the next thing that takes the awful plunge and disappears,'—and then I was disappointed to find that the wreck of a Dutch merchant ship overtook it and went down before. At length, after making several guesses of this nature, and being deceived in all—this fact—the fact of my invariable miscalculation—set me upon a train of reflection that made my limbs again tremble, and my heart beat heavily once more.

"It was not a new terror that thus affected me, but the dawn of a more exciting *hope*. This hope arose partly from memory, and partly from present observation. I called to mind the great variety of bouyant matter that strewed the coast of Lofoden, having been absorbed and then thrown forth by the Moskoe-ström. By far the greater number of the articles were shattered in the most extraordinary way—so chafed and roughened as to have the appearance of being stuck full of splinters—but then I distinctly recollected that there were *some* of them which were not disfigured at all. Now I could not account for this difference except by supposing that the roughened fragments were the only ones which had been *completely absorbed*—that the others had entered the whirl at so late a period of the tide, or, for some reason,

had descended so slowly after entering, that they did not reach the bottom before the turn of the flood came, or of the ebb, as the case might be. I conceived it possible, in either instance, that they might thus be whirled up again to the level of the ocean, without undergoing the fate of those which had been drawn in more early, or absorbed more rapidly. I made, also, three important observations. The first was, that, as a general rule, the larger the bodies were, the more rapid their descent—the second, that, between two masses of equal extent, the one spherical, and the other *of any other shape* the superiority in speed of descent was with the sphere—the third, that, between two masses of equal size, the one cylindrical, and the other of any other shape, the cylinder was absorbed the more slowly. Since my escape, I have had several conversations on this subject with an old schoolmaster of the district; and it was from him that I learned the use of the words 'cylinder' and 'sphere.' He explained to me—although I have forgotten the explanation—how what I observed was, in fact, the natural consequence of the forms of the floating fragments—and showed me how it happened that a cylinder, swimming in a vortex, offered more resistance to its suction, and was drawn in with greater difficulty than an equally bulky body, of any form whatever.*

"There was one startling circumstance which went a great way in enforcing these observations, and rendering me anxious to turn them to account, and this was that, at every revolution, we passed something like a barrel, or else the yard or the mast of a vessel, while many of these things, which had been on our level when I first opened my eyes upon

* See Archimedes, "*De Incidentibus in Fluido.*"—lib. 2.

the wonders of the whirlpool, were now high up above us, and seemed to have moved but little from their original station.

"I no longer hesitated what to do. I resolved to lash myself securely to the water cask upon which I now held, to cut it loose from the counter, and to throw myself with it into the water. I attracted my brother's attention by signs, pointed to the floating barrels that came near us, and did everything in my power to make him understand what I was about to do. I thought at length that he comprehended my design—but, whether this was the case or not, he shook his head despairingly, and refused to move from his station by the ring-bolt. It was impossible to reach him; the emergency admitted of no delay; and so, with a bitter struggle, I resigned him to his fate, fastened myself to the cask by means of the lashings which secured it to the counter, and precipitated myself with it into the sea, without another moment's hesitation.

"The result was precisely what I had hoped it might be. As it is myself who now tell you this tale—as you see that I *did* escape—and as you are already in possession of the mode in which this escape was affected, and must therefore anticipate all that I have farther to say—I will bring my story quickly to conclusion. It might have been an hour, or thereabout, after my quitting the smack, when, having descended to a vast distance beneath me, it made three or four wild gyrations in rapid succession and, bearing my loved brother with it, plunged headlong, at once and forever, into the chaos of foam below. The barrel to which I was attached sunk very little farther than half the distance between the bottom of the gulf and the spot at which I leaped overboard, before a great change took

place in the character of the whirlpool. The slope of the sides of the vast funnel became momently less and less steep. The gyrations of the whirl grew, gradually, less and less violent. By degrees, the froth and the rainbow disappeared, and the bottom of the gulf seemed slowly to uprise. The sky was clear, the winds had gone down, and the full moon was setting radiantly in the west, when I found myself on the surface of the ocean, in full view of the shores of Lofoden, and above the spot where the pool of the Moskoe-ström *had been*. It was the hour of the slack—but the sea still heaved in mountainous waves from the effects of the hurricane. I was borne violently into the channel of the Ström, and in a few minutes was hurried down the coast into the 'grounds' of the fishermen. A boat picked me up—exhausted from fatigue—and (now that the danger was removed) speechless from the memory of its horror. Those who drew me on board were my old mates and daily companions—but they knew me no more than they would have known a traveller from the spirit-land. My hair which had been raven-black the day before, was as white as you see it now. They say too that the whole expression of my contenance had changed. I told them my story—they did not believe it. I now tell it to *you*—and I can scarcely expect you to put more faith in it than did the merry fishermen of Lofoden."